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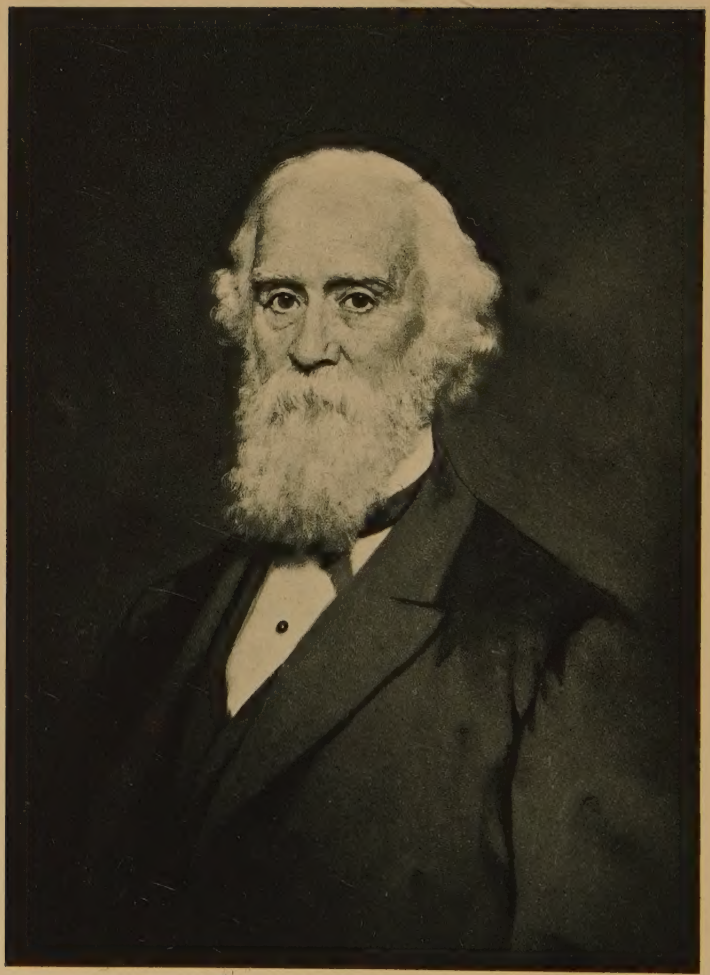
THE GEORGE LEIB HARRISON FOUNDATION

1896–1906



Geo. W. Dawson,

UNIVERSITY OF PENNSYLVANIA

The George Leib Harrison Foundation

for the

Encouragement of Liberal Studies

and the

Advancement of Knowledge

1896-1906

Founded 1740

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The George Leib Harrison Foundation.

THE GEORGE LEIB HARRISON FOUNDATION FOR THE ENCOURAGEMENT OF LIBERAL STUDIES AND THE ADVANCEMENT OF KNOWLEDGE, of the capital sum of $500,000, was established June 4, 1895, as a filial memorial to George Leib Harrison, LL.D., a citizen of Philadelphia, whose civic virtues and philanthropic labors contributed largely to the honor and prosperity of his native City and State.

THE PURPOSES OF THE FOUNDATION, as then defined by the donor, Charles Custis Harrison, Provost of the University, are fourfold:

1. The endowment of Scholarships and Fellowships in the Department of Philosophy (the Graduate School) of the University of Pennsylvania for students of exceptional promise or proved ability.

2. The establishment of Funds in connection with these Fellowships for the acquisition, by the Library of the University, of works of permanent scholarly value.

3. The extension of temporary relief from their professional duties to men in professorial positions, such as may enable them to engage for a time in special study or research.

4. The engagement of men of distinction to lecture, or, for a time, to reside, at the University.

MAINTENANCE IN PERPETUITY of the capital of the endowment is ensured by a condition of the Deed of Trust which provides that, in case of diminution by loss or depreciation, a portion of the interest shall be transferred to the principal until the original capital is reinstated.

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The integrity of the principal having been thus safeguarded, it was the desire of the donor that the terms of the endowment should permit as large freedom in the administration of the income as might be consistent with the aims of the Foundation, in the belief that regulations of too rigid a character might in future years tend to restrict its possibilities of usefulness in place of contributing to their full accomplishment. It was his express wish that the income should at all times be available to enable the University to meet such needs as might arise, or improve such opportunities as might offer, within the general scope of the Foundation.

Alienation of any part of the funds for any outside purpose is debarred by the Deed of Trust. No part of principal or income may be used in the erection of buildings, in the endowment of professorships, or for any further permanent appropriation.

On March 1, 1906, the Provost informed the Corporation that a sum amounting to $144,100 had accumulated since the establishment of the Foundation, and that this sum stood invested with the original donation of $500,000. He pointed out that the rapid growth of the University made it not only desirable, but mandatory, that a larger annual sum should at no distant date be available for the purposes of the Trust. With a view to meeting this need, he recommended that, while the income of the original donation should remain, as before, applicable for the purposes of the Trust, the accrued excess of $144,100 should be set apart for accumulation until it should amount to $500,000 of a par and market value, and that this additional sum of $500,000 should then be held for the same purposes and trusts, and in all respects in the same manner, as provided in and by the Agreement of June 4, 1895,

respecting the original donation of $500,000. The Fund, as then finally constituted, would thus amount to $1,000,000.

A resolution embodying this recommendation of the Provost was, thereupon, approved and enacted by the Corporation, March 1, 1906.

The Income of the Foundation became available September 1, 1896, the first day of the fiscal year 1896-1897. The Corporation now takes occasion to make this statement of the results accomplished, in the first ten years, so far as they may be placed upon record. Its efforts, as yet, have been confined to the realization of the first and second only of the purposes of the Foundation—the institution of Scholarships and Fellowships, and the establishment of Funds for the acquisition by the Library of works of permanent scholarly value.

On September 1, 1896, eight Scholarships, fourteen Fellowships, and five Senior Fellowships, were created upon the Harrison Foundation. To these were added September 1, 1897, five Fellowships-at-large, and on February 1, 1901, one Research Fellowship. A few modifications have been made in the conditions of tenure, but the original plan remains, in its main features, unchanged.

The Harrison Scholarships.

The Harrison Scholarships, eight in number, were originally restricted to students holding the baccalaureate degree of the University and recorded as having been in residence for at least two years prior to their graduation. They were intended to afford men of marked promise but limited means a year of graduate study in which to give

conclusive proof of their fitness for Fellowships. On November 3, 1903, this restriction was removed. Graduates of any institution whose baccalaureate degree is acceptable to the Executive Committee of the Faculty of Philosophy are now eligible.

These Scholarships are not permanently assigned to particular subjects, but are distributed yearly to applying candidates in order of merit by the Corporation of the University upon recommendation of the Executive Committee of the Faculty of Philosophy. Each Scholarship takes its title, when conferred, from the subject elected by the successful candidate as his major subject. The incumbents are required to continue in resident graduate study for one full academic year. They receive free tuition from the University and a stipend of one hundred dollars from the Foundation, are allowed to engage in outside occupations only upon permission from the Dean, and are not eligible for reappointment.

The Harrison Fellowships.

The Harrison Fellowships originally created, fourteen in number, were assigned permanently to the following subjects:

1. Classical Languages.
2. Semitic Languages.
3. Germanic Languages.
4. Romanic Languages.
5. English.
6. American History.
7. European History.
8. Political Science.
9. Economics.
10. Philosophy.
11. Pedagogy.
12. Chemistry.
13. Biology.
14. Mathematics and Astronomy.

Five Fellowships-at-large were added September 1, 1897. They differed from the Fellowships first created only in that their title subjects were not permanently fixed. It was intended that they should be assigned by the Corporation from time to time, as occasion might demand, to subjects which are elected by but few students and in which, consequently, it did not seem desirable to create permanent Fellowships; and also that they should be employed on occasion for the appointment of additional Fellows in subjects provided with permanent Fellowships when the merits of two or more candidates should appear approximately equal.

The Original Conditions of Tenure required that the appointee should hold a satisfactory baccalaureate degree and present evidence of ability to qualify for admission to candidacy for the degree of Doctor of Philosophy; that he should have had at least one year of graduate work of a character acceptable to the Executive Committee; and that, in accepting his appointment, he should, *ipso facto,* declare himself a candidate for the degree of Doctor of Philosophy, electing as his major the subject specified in his application and satisfying the regulations of the Department governing admission to candidacy for that degree. He was pledged to remain in residence at the University during the term of his Fellowship and to devote his whole time to the prosecution of his duties, no teaching or other outside work being permitted. His appointment conferred free tuition from the University and a stipend of $500 from the Foundation, but not exemption from the payment of laboratory or graduation fees. The Fellowships were declared not open to women—who are, however, eligible for several Fellowships established in the Department on other Foundations—or to persons already holding the degree of Doctor of Philosophy.

On November 3, 1903, the fourteen Fellowships permanently assigned were freed from their restriction to special subjects and placed upon the same footing as the Fellowships-at-large. It was at the same time provided that a Fellow might by exceptional privilege receive permission to absent himself from the University for study or research elsewhere, provided the Executive Committee deemed such absence essential for the prosecution of his work.

Under an Existing Provision, a Fellow might receive permission by special privilege to give instruction. This privilege was rarely sought or granted. On the ground, however, that the experience gained in this way might in particular instances be of great value, the Provost, on November 4, 1905, expressed his approval of a freer exercise by the Executive Committee of its discretionary power in the granting of this privilege, and on November 7, 1905, the Executive Committee adopted the following regulations for its guidance in passing upon applications. It was expressly stated that permission should be granted solely for the benefit of the Fellow and at his personal desire; he should be under no obligation, like the Fellows for Research, to give instruction at the request of the head of the Department in charge of his major subject. The amount of instruction was limited to four hours a week. Applications, it was directed, should be submitted to the Executive Committee by the Group Committee in charge of the applicants' work, and, in passing upon them, the Dean should have power of absolute veto.

Senior Fellowships.

The Senior Fellowships, five in number, were originally restricted to men who had received the degree of Doctor of Philosophy from the University of Pennsyl-

vania. The special object contemplated in these Fellowships was to enable the holders to complete some special work of research, and to secure experience in giving advanced instruction. It was provided that the Fellowships should not be assigned permanently to special subjects, but should be open to competition and should draw their titles from the subjects to which they were assigned; and that the incumbents should devote themselves wholly to the special work of research indicated in their applications, save that, if so directed by the heads of their departments, they might give instruction to a maximum amount of four hours a week. No other teaching or other occupation was to be permitted. They were enjoined to remain in residence at the University, and were admitted to all its privileges, free of all charges. A stipend of $800 was conferred upon them from the Foundation, and they were declared twice eligible for reappointment.

On November 3, 1903, the title "Senior Fellowship" was changed to "Fellowship for Research," and the Fellowships were thrown open to all persons holding the degree of Doctor of Philosophy granted under conditions satisfactory to the Executive Committee or to the Faculty of Philosophy. At the same time it was provided that by special privilege the holder of a Fellowship for Research might be permitted on occasion to pursue his work elsewhere than at the University.

Modifications in the Conditions of Tenure.

The Modifications Noted in the original conditions of tenure of the Scholarships and Fellowships on the George Leib Harrison Foundation were made by the Corporation upon the recommendation of the Founder.

They were suggested by the experience of seven years, and were directed toward the attainment of two objects,—that the best men available might be secured, and that the work of students on the Foundation might be facilitated and its success ensured.

With a View to the First of these objects, all restrictions upon competition, whether between the different branches of instruction within the University or between its graduates and those of other universities, were removed. With a view to the second, the restriction requiring residence at the University was modified and provision made that a Fellow might, if it were deemed essential, pursue his work elsewhere. This permission, it may be added, is granted only as an exceptional privilege; it is not intended that the Harrison Fellowships and Fellowships for Research may be regarded as convertible upon request into "Traveling Fellowships" in the ordinary sense of that term. Residence elsewhere than at the University is allowed only when it is absolutely necessary to the successful prosecution of certain special study or research.

Duties and Obligations of Fellows and Scholars.

The Conditions of Tenure above laid down have been fixed by the Corporation and cannot be modified without the consent of the Founder and of the Corporation. A statement follows of the prescribed method observed by candidates in applying, of the mode of appointment, and of the duties of incumbents under the conditions of tenure outlined above.

Applications for Appointment to Harrison Fellowships and Scholarships are made in the first instance to the

Dean as Chairman of the Executive Committee of the Faculty of Philosophy. The candidate specifies, as an essential feature of his application, the subject which he intends to pursue as his major or chief subject, and his application is first passed upon by the Group Committee of that subject, comprising those members of the Faculty who give instruction in it. The candidates recommended by the several Group Committees are then considered with respect to their relative merit by the Executive Committee, and the stated number recommended for appointment to the Board of Trustees.

In Accepting a Harrison Scholarship the candidate binds himself to devote the greater part of his time, and in accepting a Fellowship or Fellowship for Research he binds himself to devote his entire time, to the prosecution of his research work. Scholars and Fellows place themselves under no obligation to remain at the University after the expiration of their term of tenure until they take their degrees. No service is required by the University of any Scholar, Fellow, or Fellow for Research except the four hours of instruction explicitly allowed in the case of Fellows for Research. The Chairman of his Group Committee may require a Fellow to make monthly reports upon the bibliography of his major subject, but this is regarded as part of his major work. The Corporation has granted permission to the Fellows and Fellows for Research to act as proctors in the examinations conducted by other departments of the University, but this service is optional and for it the Fellow receives special remuneration. While no Fellow or Fellow for Research may engage in any outside occupation, if the work which is pursued proves ultimately to possess a monetary value, the University assumes no right to the proceeds, but allows

the author of the work to receive them, while reserving the right to control the mode of its publication.

Funds on the Foundation.

In Connection With each of the nineteen Harrison Fellowships the sum of $100—the amount of the tuition fee at the time the Fellowships were established—is reserved and applied to increasing and improving the equipment of the Department. These Funds, to the amount of $1,900 per annum, have been expended under approval of the Provost upon the joint recommendation of the Professor in charge of the Department represented by the Fellowship and of the Dean. They have been applied in the main toward the furtherance of the second of the primary objects of the Foundation, the enrichment of the Library of the University by the acquisition of works of permanent scholarly value. In some instances these Funds have been expended for the purchase of special apparatus. In all cases, before the Fund attached to a Harrison Fellowship is applied to any purpose, the needs of the Fellow are considered. If the work on which he is engaged calls for books or apparatus not in the possession of the University, the Fund attached to his Fellowship is employed to provide him with what is needed, rather than for any other purpose.

In Addition to these permanent Funds, a special Fund or Grant of $5,000 for the purchase of books was ordered on November 7, 1905, by the Provost. Under the plan adopted by the Executive Committee, a part of this sum was allotted in shares for direct expenditure by the several Departments, and a part reserved to be expended by the Committee for works of general value to all Departments or to take advantage of such opportunities for specially advantageous purchases as might offer themselves.

The List of Fellows and Scholars.

The List Which Follows includes the holders of Fellowships and Scholarships on the Foundation for the first ten years following its creation. It presents the essential facts of the academic and subsequent record of each incumbent, his membership in learned societies, and in particular his contributions to scholarship and literature as author or editor. It may be noted here that, in cases where the thesis has not been published, the title appears under a separate heading and not in the list of publications. The publications are arranged in order of the date of their appearance, the references to articles in periodicals being, for the sake of definiteness in this regard, by month and year. The list includes, specifically, the publications issued within the first ten years of the Foundation only, but when additional information has been furnished, it has, in individual cases, been given.

During the first ten years of the Foundation, there were 173 holders of Fellowships and Scholarships. Of this number 67 were holders of the baccalaureate degree of the University of Pennsylvania, and 106 graduates of other institutions, including 14 in foreign countries. The major subjects represented were as follows: Astronomy, 4; Botany and Zoölogy, 11; Chemistry, 18; Classical Languages, 18; Economics (including Economic Geography, and Transportation and Commerce), 17; English, 14; Geology and Mineralogy, 2; Germanics, 13; History, 25; Indo-European Philology, 2; Mathematics, 10; Pedagogy, 4; Philosophy, 8; Physics, 1 (the Department of Physics has two independent Fellowships, founded by John Tyndall and by John Fries Frazer); Political Science, 9; Psychology, 3; Romanics, 4; Semitics, 6; Sociology, 4. The present occupations of the persons included in the list are,

under the latest advices, as follows: 8 are still students or looking forward to a completion of their courses; 1 is a theological and 1 a medical student; 24 are Professors, 22 Assistant or Associate or Junior Professors, and 38 are Instructors (under various denominations) in universities, colleges, or technical schools; 28 are Superintendents, Principals, Professors or Instructors in schools; 2 are private tutors; 5 are engaged in lexicographical, editorial, or other literary work; 9 are engaged as technical experts in municipal administration, or in sociological or other work of similar character; 1 is co-director of the Provincial Bureau of Education, and Attaché to the Governor, of Shantung; 1 is a curator in the Royal Museum of Berlin; 2 are biologists in State and Federal service; 3 are chemists; 5 are pastors of churches; 1 is an engineer; 1 is in the consular service; 1 is a physician; 3 are attorneys; 9 are in business; 6 are deceased; of 2 no information is forthcoming.

RAYMOND MacDONALD ALDEN

A.B., A.M. (Pennsylvania, 1894; Harvard, 1896): English. Fellow, 1897-1898; Ph.D. (Pennsylvania, 1898); Senior Fellow, 1898-1899; Instructor in English, University of Pennsylvania, 1899-1901. Assistant Professor of English Literature and Rhetoric, Leland Stanford Jr. University, 1901 to date.

Member of Phi Beta Kappa, 1894; Modern Language Association of America, 1898.

Address: Palo Alto, California.

PUBLICATIONS:

The Rise of Formal Satire in England [Thesis]. Publications of the University of Pennsylvania; Series in Philology, Literature and Archæology, 1899. Pp. 264.

The Time Element in English Verse. *Modern Language Notes*, December, 1899.

The Art of Debate. New York: Henry Holt and Company, 1900. Pp. 279.

Migration in American Universities. *Harvard Graduates' Magazine,* March, 1900.

Shakespeare's Julius Cæsar [edited]. Boston: Sanborn and Company, 1902. Pp. 257.

Student Life at Stanford University. *The Red and Blue,* May, 1902.

An Old English Play in California. *Out West,* August, 1903.

On Seeing an Elizabethan Play. San Francisco: Elder and Shepard, 1903. Pp. 60.

English Verse: Specimens Illustrating its Principles and History. New York: Henry Holt and Company, 1903. Pp. xiv, 459.

Consolatio: a Memorial Ode. San Francisco: Paul Elder and Company, 1903. Pp. 60.

Scott's Lady of the Lake [edited]. New York: American Book Company, 1904. Pp. 250.

Elizabethan Humours. San Francisco: Paul Elder and Company, 1905. Pp. 60.

Elizabethan Drama in California. *Impressions Quarterly,* June, 1905.

Class Day at Stanford. *The Reader,* August, 1905.

The Golden Key: Phi Beta Kappa Poem read before the Stanford Chapter. *The Sequoia,* October, 1905.

Romance in the Victorian Age. *The Reader,* August, 1906.

The Knights of the Silver Shield. Indianapolis: The Bobbs-Merrill Company, 1906. Pp. 150.

HARTLEY BURR ALEXANDER

A.B. (Nebraska, 1897): Philosophy. Fellow, 1898-1900. Fellow in Philosophy, 1900-1901; Ph.D. (Columbia, 1901). Member of Editorial Staff of Webster's Dictionaries, G. and C. Merriam Company, Springfield, Massachusetts, 1903 to date.

Member of the American Philosophical Association, 1905; Associate of the American Society for Psychical Research, 1906.

Address: 384 St. James Avenue, Springfield, Massachusetts.

PUBLICATIONS:

The Problem of Metaphysics and the Meaning of Metaphysical Explanation [Thesis]. Columbia University Contributions to Philosophy, Psychology, and Education, 1902. Pp. 130.

Member of the Editorial Staff of the New International Encyclopædia, 1903. Contributor of the articles "Language," "Legerdemain," "Magis," "Rhyme," "Poetics," "Spinoza," and others.

Member of the Editorial Staff of Webster's Dictionaries. G. and C. Merriam Company, Springfield, Massachusetts, 1903 to date.

The Spring of Salvation. *International Journal of Ethics,* January, 1904.

The Concept of Consciousness. *The Journal of Philosophy, Psychology and Scientific Methods,* March, 1904.

Some Observations on Visual Imagery. *Psychological Review,* July-September, 1904.

Phenomenalism and the Problem of Knowledge. *The Journal of Philosophy, Psychology and Scientific Methods,* March, 1905.

Quantity, Quality, and the Function of Knowledge. *Ibid.,* August, 1905.

The Evolution of Ideals. *International Journal of Ethics,* April, 1906.

Poetry and the Individual: An Analysis of the Imaginative Life in Relation to the Creative Spirit in Man and Nature. New York: G. P. Putnam's Sons, 1906. Pp. x, 240.

ROBERT JUDSON ALEY

A.B., A.M. (Indiana, 1888, 1890): Mathematics. Fellow, 1896-1897; Ph.D. (Pennsylvania, 1897). Professor of Mathematics and Secretary of the Faculty, Indiana University, 1891 to date.

Member of the American Mathematical Society, 1890; Mathematical Association of England, 1896; London

Mathematical Society, 1897; Deutsche Mathematische Vereinigung, 1898; Fellow of the Indiana Academy of Sciences, 1898; Member of the Edinburgh Mathematical Society, 1900; American Association for the Advancement of Science, 1900; Sigma Xi, 1904; Fellow of the American Association for the Advancement of Science, 1905.

Address: 209 Forest Place, Bloomington, Indiana.

PUBLICATIONS:

Modern Synthetic Geometry versus Euclid. *Science*, December, 1892.

Daniel Kirkwood: Biography and Bibliography. *American Mathematical Monthly*, May, 1894.

A Device for Extracting the Square Root of Certain Surd Quantities. *Ibid.*, September, 1897.

Contributions to the Geometry of the Triangle [Thesis]. Publications of the University of Pennsylvania; Series in Mathematics, 1897. Pp. 32, pl. 1.

Note on Charles Smith's Definition of Multiplication. *Proceedings of the Indiana Academy of Sciences*, 1897.

Collinear Sets of Three Points Connected with the Triangle. *Ibid.*, 1897.

Note on Angel's Method of Inscribing Regular Polygons. *Ibid.*, 1898.

Concurrent Sets of Three Lines Connected with the Triangle. *Ibid.*, 1898.

A New Triangle and Some of Its Properties. *Ibid.*, 1898.

A Proposed Notation for the Geometry of the Triangle. *Ibid.*, 1899.

Some Circles Connected with the Triangle. *Ibid.*, 1899.

Graphs: A Monograph. Boston: D. C. Heath and Company, 1901. Pp. 30.

Revision of Indiana Arithmetics (jointly with O. L. Kelso). Chicago and New York: Silver, Burdett and Company, 1904. Pp. 276, 327.

The Essentials of Algebra (jointly with D. A. Rothrock). Chicago and New York: Silver, Burdett and Company, 1904. Pp. 326.

Supplementary Problems (jointly with D. A. Rothrock). Chicago and New York: Silver, Burdett and Company, 1906. Pp. 68.

Editor of the Mathematical Department of the *Inland Educator*, 1897-1900; of *The Educator-Journal*, 1900 to date, and Editor-in-Chief, 1903 to date.

Contributor of many reviews and short articles to various scientific publications.

WILLIAM HARVEY ALLEN

A.B. (Chicago, 1897): Political Science. Fellow, 1898-1900; Ph.D. (Pennsylvania, 1900). Instructor in Public Law, University of Pennsylvania, 1900-1901. General Secretary, New Jersey State Charities Aid Association, 1901-1903. Lecturer on Sociology, University of Pennsylvania, 1902-1903. Instructor in Correspondence Department, Chicago University, 1902-1906. General Agent, New York Association for Improving the Condition of the Poor, 1903 to date. Lecturer, New York School of Philanthropy, 1903 to date.

Address: 105 East Twenty-second Street, New York City, New York.

PUBLICATIONS:

Annual Reports of the New Jersey State Charities Aid Association, 1901-1902, 1902-1903. State Printer, Trenton, New Jersey. Pp. 217, 143.

The New Jersey State Conference of Charities and Corrections. *Charities Review*, March, 1902.

Editor [jointly with the members of the Executive Committee of the New Jersey State Charities Aid Association, but chiefly active and responsible for the work] of the *New Jersey Review of Charities and Corrections*, 1902-1903.

Editor of the *Reader's Den* in *Charities*, 1903-1904.

Rural Sanitary Administration in Pennsylvania [Thesis]. Published by the Pennsylvania State Board of Health, 1903. Pp. 93.

Sanitation and Social Progress. *American Journal of Sociology,* March, 1903.

Vagrants: Social Parasites or Social Products. *World of To-day,* July, 1903.

Opportunities at Coney Island. *Charities,* June, 1904.

Annual Reports of the New York Association for Improving the Condition of the Poor, 1903-1906. Published by the Association.

Every Man a Statistician. *Outlook,* March, 1905.

In Poor Man's England. *Chautauquan,* May, 1905.

Fresh Air Work. *Annals of the American Academy of Political and Social Science,* May, 1905.

Schools and Statistics. *School Review,* June, 1905.

School Facts and School Policy. *Public Policy,* June, 1905.

Political Reform *via* Statistical Method in Educational and Philanthropic Work. *North American Review,* July, 1905.

Experiences of a Census Taker. *Atlantic Monthly,* November, 1905.

Seaside Treatment of Children Suffering from Bone Tuberculosis. *Review of Reviews,* September, 1905.

Need for Better School Reports. *Ibid.,* May, 1906.

The Goodness Fallacy. *World's Work,* November, 1906.

Hospital Efficiency. *Journal of Sociology,* November, 1906.

Alfred Moseley, Educator. *Charities and Corrections,* December, 1906.

Efficiency in Making Bequests. *Atlantic Monthly,* March, 1907.

Efficient Government. New York: Dodd, Mead and Company, 1907. Pp. 30.

Brief for Institute for Municipal Research, 1907. Jointly with Henry Bruere, Frederick A. Cleveland and Frank Tucker. Privately printed.

New York's Ocean Beach. *Review of Reviews,* May, 1907.

How the Woman of Millions Could Spend Her Surplus. *Woman's Home Companion,* June, 1907.

GEORGE WILLIAM BACON

B.S. (Pennsylvania, 1899): Romanic Languages. Scholar, 1899-1900; Fellow, 1900-1901; Graduate Student, 1901-1903; Ph.D. (Pennsylvania, 1903). Instructor in

Spanish and Latin, St. Louis High School, St. Louis, Missouri, 1903-1904.

Member of Phi Beta Kappa, 1899.

Address: Wyncote, Pennsylvania.

PUBLICATIONS:

Essay Upon the Life and Dramatic Works of Dr. Juan Pérez de Montalbán [Thesis]. Privately printed, 1904. Pp. 46.

CLARENCE WILLIAM BALKE

A.B. (Oberlin, 1902): Chemistry. University Scholar, University of Pennsylvania, 1902-1903. Instructor in Chemistry, Oberlin College, Summer School, 1903; Acting Professor of Physics and Chemistry, Kenyon College, 1903-1904. Fellow, 1904-1905; Ph.D. (Pennsylvania, 1905); Fellow for Research, 1905-1906; Instructor in Chemistry, University of Pennsylvania, 1906 to date.

Member of Sigma Xi, 1905; American Chemical Society, 1905.

Address: Philadelphia, Pennsylvania.

PUBLICATIONS:

Derivatives of Complex Inorganic Acids (in conjunction with Dr. E. F. Smith). *Journal of the American Chemical Society*, December, 1903.

Double Fluorides of Tantalum [Thesis]. Privately printed, 1906. Pp. 22.

SAMUEL GOODWIN BARTON

A.B. (Temple College, 1903): Astronomy. University Scholar, 1903-1905; Fellow, 1905-1906; Ph.D. (Pennsylvania, 1906); Fellow for Research, 1906-1907. Professor of Mathematics and Mechanics, Thomas S. Clarkson Memorial School of Technology, Potsdam, N. Y., 1907 to date.

Member of Sigma Xi, 1906.

Address: Potsdam, N. Y.

PUBLICATIONS:

Secular Perturbations Arising from the Action of Saturn upon Mars (an application of the method of Arndt) [Thesis]. Privately printed, 1906. Pp. 22.

Observations of Minor Planets and Comet (1906 b). *Astronomical Journal,* July, 1906.

Ephemeris of the Planet Parthenope (11). *Astronomische Nachrichten,* February, 1907.

Elements and Ephemeris of the Planet Patientia (451). *Ibid.,* March, 1907.

Ephemeris of (41) Daphne. *Ibid.,* May, 1907.

WILLIAM GODFREY BEK

A.B. (Missouri, 1903): Germanics. Principal of the Greenwood School, Missouri, 1897-1899; Ott School, Independence, Missouri, 1899-1900. Instructor in German, Columbia Normal Academy, Missouri, 1901-1902; University of the South, Summer Term, 1904. University Scholar, University of Pennsylvania, 1903-1904. A.M. (Missouri, 1905). Fellow, 1905-1907; Ph.D. (Pennsylvania, 1907). Instructor in Germanics, Washington University, 1907 to date.

Address: St. Louis, Missouri.

PUBLICATIONS:

Goethe—The Writer. *The Normal Review,* Warrensburg, Mo., October, November, December, 1900.

Bibliography. Americana-Germanica for the year 1906. *German-American Annals,* January, 1907.

The German Settlement Society of Philadelphia and Its Colony, Hermann, Missouri [Thesis]. Privately printed, 1907. Pp. xi, 170.

THOMAS BRUCE BIRCH

A.B., A.M. (Pennsylvania College, 1891, 1894): Classical Languages. Student in Gettysburg Theological Semi-

nary and Instructor in Latin, Preparatory Department, Pennsylvania College, 1891-1894. Professor of Latin, Irving College, Mechanicsburg, Pa., 1896-1902; Susquehanna University, Selinsgrove, Pa., 1902 to date; absent on leave, 1905-1908. Scholar, 1905-1906; A.M. (Pennsylvania, 1906). Fellow, 1906-1908.

Address: Selinsgrove, Pennsylvania.

WILTON WALLACE BLANCKÉ

A.B. (Pennsylvania, 1905): Classical Languages. Fellow, 1905-1906; A.M. (Pennsylvania, 1906); University Scholar, 1906-1907. Instructor in Latin and German, Central High School, Philadelphia, 1906 to date.

Member of Phi Beta Kappa, 1904; Classical Club, 1906.

Address: 3608 Walnut Street, Philadelphia.

LEONARD ANDERSON BLUE

Ph.B. (Cornell, 1892): Political Science. Professor of Political and Social Science, Iowa Wesleyan University, 1898-1901; absent on leave, 1900-1901. Fellow, 1900-1901; Ph.D. (Pennsylvania, 1902). Professor of English, Morningside College, Sioux City, Iowa, 1902-1905. Principal, Girls' Latin School of Baltimore, 1905 to date.

Member of the American Academy of Political and Social Science, 1898.

Address: Twenty-fourth and St. Paul Streets, Baltimore, Maryland.

PUBLICATIONS:

The Relation of the Governor to the Organization of Executive Power in States [Thesis]. Privately printed, 1902. Pp. 48.

Tendencies in State Administration. *Annals of the American Academy of Political and Social Science,* November, 1901.

ARTHUR CLINTON BOGGESS

A.B. (Illinois, 1902): American History. Fellow in American History, University of Wisconsin, 1903-1904. Scholar, 1904-1905; Ph.D. (Pennsylvania, 1906). Professor of History and Political and Social Science, Pacific University, 1906 to date.

Thesis: The Settlement of Illinois, 1778-1830.

Address: Forest Grove, Oregon.

GILBERT HILLHOUSE BOGGS

B.S. (Georgia, 1896): Chemistry. Fellow, 1899-1901; Ph.D. (Pennsylvania, 1901). Instructor in Chemistry, University of Maine, 1901-1903. Adjunct Professor of Chemistry, 1903-1904; Junior Professor of Chemistry, Georgia School of Technology, 1904 to date.

Member of the American Chemical Society, 1900; Sigma Xi, 1900.

Address: Atlanta, Georgia.

PUBLICATIONS:

The Action of Hydrochloric Acid Gas upon Metallic Vanadates; The Occurrence of Molybdenum in the Mineral Endlichite [Thesis]. Privately printed, 1901. Pp. 31.

JOHN ARCHIBALD BOLE

A.B. (Geneva, 1888): Germanics. Fellow, 1901-1902. Teacher of German, Eastern District High School, Brooklyn, New York, 1902 to date. Ph.D. (Pennsylvania, 1903).

Address: Brooklyn, New York.

PUBLICATIONS:

The Harmony Society, a Chapter in the History of German-American Culture [Thesis]. *German-American Annals,* 1904. Pp. 176.

HERBERT EUGENE BOLTON

B.L. (Wisconsin, 1895): American History. Fellow, 1897-1899; Ph.D. (Pennsylvania, 1899). Professor of History and Economics, Milwaukee State Normal School, 1899-1901. Instructor in History, 1901-1905; Adjunct Professor, University of Texas, 1905 to date. Appointed by the Department of Historical Research of the Carnegie Institution of Washington to investigate the archives of the Republic of Mexico and to make a comprehensive report upon the materials they contain relative to United States history, 1906.

Thesis: The Free Negro in the South before the Civil War.

Member of the North Central History Teachers' Association, 1900; American Academy of Political and Social Science, 1900; Fellow of the Texas State Historical Association, 1901; Associate Member of the Public Archives Commission, 1903; American Historical Association, 1906.

Address: Austin, Texas.

PUBLICATIONS:

Concreteness in History Teaching. *The School Review,* November, 1900.

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Associate Editor of *The Quarterly of the Texas State Historical Association,* 1904.

Secretary and Manager of the Publications of the University of Texas, 1904 to date.

Affairs in the Philipinas Islands. Fray Domingo de Salazar (1583) [translated]. In Blair and Robertson, *The Philippine Islands,* 1493-1803," Vol. V. Cleveland: A. H. Clark and Company, 1903-1907.

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Articles on the Southwestern Indian Tribes, published in the *Handbook of the Indians,* I. Bureau of American Ethnology, Washington, 1907.

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A.B. (Pennsylvania, 1899): Philosophy. Scholar, 1899-1900; A.M. (Pennsylvania, 1900). Princeton Theological Seminary, 1900-1903. Ordained Minister of the Gospel, October 15, 1903. Pastor Presbyterian Churches at Cream Ridge and New Egypt, New Jersey, October 15, 1903, to date.

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Thesis: On the Use of the Chorus in the Dialogue Portions of Sophocles.

Member of Phi Beta Kappa, 1897.

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Henry Phipps Institute for the Study, Treatment and Prevention of Tuberculosis, Philadelphia, 1904-1906. Assistant Secretary, Associated Charities, Cincinnati, Ohio, 1906. General Secretary of the Associated Charities and Chief Probation Officer of the Juvenile Court, Lexington, Kentucky, 1906 to date.

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PUBLICATIONS:

American System of Improving Waterways. *Annals of the American Academy of Political and Social Science,* October, 1905.

LEE BYRNE

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Member of the Classical Association of the Middle West and South, 1905.

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PUBLICATIONS:

Seneca's Philosophy of Life: A Comparison of the Tragedies with the Prose [Thesis]. Privately printed, 1901. Pp. 36.

Quarry Slaves: a Drama. Boston: The Poet-Lore Company, 1904. Pp. 31.

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Thesis: The Rise of English Lollardry.

Member of Phi Beta Kappa, 1892; American Historical Association, 1896.

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PUBLICATIONS:

The Poor Priests [Thesis in part]. Report of the American Historical Association, Vol. I, 1899. Pp. 32.

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Member of Phi Beta Kappa, 1903; New England Modern Language Association, 1903; Modern Language Association of America, 1904.

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PUBLICATIONS:

Friedrich Schlegel's Relations with Reichardt and his Contributions to "Deutschland" [Thesis]. *Americana-Germanica,* 1903. Pp. 49.

JOHN LINTON CARVER

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Thesis: The Valiant Scot, by J. W. Gent.

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Member of Phi Beta Kappa, 1899; Sigma Xi, 1902.

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PUBLICATIONS:

Comparative Variability of Drones and Workers of the Honey Bee [jointly with Everett F. Phillips]. *Biological Bulletin,* December, 1903.

Cell Lineage and Larval Development of *Fiona marina,* a Nudibranch Mollusk [Thesis]. *Proceedings of the Academy of Natural Sciences of Philadelphia,* 1904. Pp. 80; 15 plates.

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A.B. (Dickinson, 1902): Mathematics. Principal of the Public Schools, Ridley Park, Pennsylvania, 1902-1906. Scholar, 1905-1906; Instructor in Mathematics, University of Pennsylvania, 1906 to date.

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port a plan to perfect them," and Chairman of its Committee on Accounting and Statistics, 1905; of the Committee on Hospital Needs and Finances appointed by a conference representing 62 hospitals of the City of New York, 1905; of Committee appointed by the President of the Board of Education, to suggest reforms in methods of accounting for the Department of Education, New York, 1906; of Committee on the Physical Welfare of School Children of New York, 1906.

Thesis: Statistical Materials for Four Chapters of "A History of Prices Since 1860."

Member of the Vereinigung für vergleichende Rechtswissenschaft und Volkswissenschaftslehre, 1898; American Academy of Political and Social Science, 1899; American Economic Association, 1902; National Municipal League and Secretary of its Committee on Municipal Accounts and Statistics, 1902; American Historical Association, 1903; American Political Science Association, 1904; Chairman of the Committee on Municipal Finances and Statistics of the American Economic Association, 1904.

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PUBLICATIONS:

Annotations to the Laws of the State of Washington [Hill's Code, Vols. I, II], 1894. Supplemental editon, *ibid.*, 1896.

The Fiscal Report of the Monetary Commission. *Annals of the American Academy of Political and Social Science,* January, 1898.

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First Lessons in Finance [a revised edition of "Funds and Their Uses"]. New York: D. Appleton and Company, 1903, 1905. Pp. vii, 304.

Editor of *Business Education and Accountancy,* by Charles Waldo Haskins. Intoduction and Biographical sketch by the editor. New York: Harper and Brothers, 1903. Pp. 254.

The Present Financial Outlook. *Annals of the American Academy of Political and Social Science,* March, 1903.

Chicago's Accounting Reform. *Proceedings* of Detroit Conference of the National Municipal League, April 23-25, 1903.

The American System of Currency and Banking [five articles]. *The Railway World,* June-July, 1903.

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Elasticity and Sound Banking [fourteen articles]. *The Financier* and *The Capitalist,* December, 1903-February, 1904.

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The Financial Reports of National Banks as a Means of Public Control: an Address before the American Academy of Political and Social Science, April 8, 1904. *Annals of the American Academy of Political and Social Science,* July, 1904.

Municipal Accounting: A First Step Toward Municipal Reform. *Political Science Quarterly,* July, 1904.

What Constitutes Reasonable Uniformity in Municipal Accounts and Reports. *Proceedings of the National Municipal League,* 1904.

Editor of Longmans, Green and Company's Series on "Finance and Administration," 1904.

Revenues and Expenses as Distinguished from Receipts and Disbursements in Municipal Accounting: read before the Congress of Accountants held at the World's Fair, St. Louis, September 26-28, 1904. Published in the *Proceedings* of the Congress, 1904.

The Banks and the United States Treasury: read before the Annual Meeting of the Pennsylvania Bankers' Association, held at Atlantic City, October 6-8, 1904. Published in the *Proceedings* of the Association, 1904.

Nomenclature and Phraseology of Municipal Administration and Accounts: read before the New York Conference of the National Municipal League, April 25-28, 1905. Published in the *Proceedings* of the Conference, 1905.

The Financial Management of Municipalities: read before the Empire Club of Toronto, Canada. *Public Policy,* April, 1905.

The Relation of Appraisements to Accounting. *The Auditor,* April, May, 1905.

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Philanthropy and Accountancy: read before the National Conference of Charities and Corrections, Philadelphia, Penna., May 14, 1906. Published in the *Proceedings* of the Conference, 1906.

Need for Accuracy and Uniformity in the Reports of Hospitals: read before the Medical Society of the County of New York, February 26, 1906. *Medical Record,* March, 1906.

What May Accountancy Teach Economics: read before the American Association for the Advancement of Science, Ithaca, New York, July, 1906. *Journal of Accountancy,* October, 1906.

Address before the Joint Committee of the Senate and House of the Massachusetts Legislature, on the Subject of "The Value of Independent Audits of Insurance Companies," October, 1906. Published in the *Minutes* of the Committee.

The Principles of Public Contest of Insurance Companies: discussions at Joint Session of American Political Science Association and American Economic Association, December 29, 1906. Published in *Proceedings* of each Society, 1906.

A Suggested Curriculum for a Department of Business Science Having an Educational Standard as High as Other Professional Schools or University Departments. *Proceedings of the American Economic Association,* December, 1906.

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A.B., A.M. (Pennsylvania, 1904, 1905): Greek. Fellow, 1905-1906; Ph.D. (Pennsylvania, 1907). Assistant Instructor in Classics, Chester High School, 1906 to date.

Thesis: The Perfect Tense in the Attic Orators.

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Member of the Botanical Society of Pennsylvania, 1896; Phi Beta Kappa, 1898; Society for Plant Morphology and Physiology, 1903; Sigma Xi, 1903.

Address: Grinnell, Iowa.

PUBLICATIONS:

A New Species of Taenia [abstract of Master's Thesis]. In Stile's Report on Parasites of Poultry, *Bulletin No.* 12, United States Department of Agriculture, 1896.

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B.S. (Pennsylvania, 1904): Economics. Scholar, 1904-1905. Lecturer on Transportation, Pennsylvania Railroad Young Men's Christian Association, 1904-1905. Assistant in Finance, 1905-1906; Instructor in Finance, 1906 to date; Secretary of the Evening School of Accounts and Finance, University of Pennsylvania, 1906 to date.

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PUBLICATIONS:

Street Railways in Philadelphia since 1900. *Annals of the American Academy of Political and Social Science,* September, 1904.

The Conflict of Passenger and Freight Traffic upon American Railroads. *Journal of Accountancy,* March, 1906.

The Construction and Finance of Interurban Railroads. *Ibid.,* May, 1906.

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Member of Phi Beta Kappa, 1897; Philadelphia County Medical Society, 1903; Public Education Society, 1905; Neurological Society, 1905; American Medical Association, 1906.

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PUBLICATIONS:

Artificial Respiration as a Therapeutic Agent in Carbolic Acid Poisoning. *American Medicine,* March, 1903.

Handbook of Osteology. Philadelphia: T. C. Davis and Company, 1902. Pp. 26.

A Study of Contagion. *New York Medical Journal,* December, 1905.

The Present Treatment of Diphtheria by the Medical Profession. *Ibid.,* October, 1906.

The Membrane and Complications of Diphtheria. A Report of 600 Cases. *Ibid.,* November, 1906.

EDWARD SAMUEL CORWIN

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Thesis: The Attitude of France towards Her Alliance with the United States in the American Revolution.

Member of the American Historical Association, 1903; American Political Science Association, 1907.

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PUBLICATIONS:

Otte's History of Scandinavia [edited]. History of the Nations, Vol. XVI. Philadelphia: John D. Morris and Company, 1907. Pp. 373.

Reviews for the *American Historical Review, Annals of the American Academy of Political and Social Science, American Political Science Review,* etc.

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Member of Phi Beta Kappa, 1896; American Historical Association, 1901; Fellow of the Texas State Historical Association, 1902.

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PUBLICATIONS:

The Founding of the First Texas Municipality. *Quarterly of the Texas State Historical Association,* January, 1899.

The Early Settlers of San Fernando. *Ibid.,* October, 1901.

Educational Efforts in San Fernando de Bexar. *Ibid.,* July, 1902.

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A Literary Experiment in New Spain. *Out West,* November, 1903.

Mexican Literature. In the "New International Encyclopedia." New York: Dodd, Mead and Company, 1904.

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The Exploration of the Louisiana Frontier, 1803-1806. Report of the American Historical Association, 1904. Pp. 23.

The Journeys of La Salle and His Companions [edited]. Two Volumes. New York: A. S. Barnes and Company, 1905. Pp. xxix, 298; vi, 259.

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The Early Exploration of Louisiana [Thesis]. Publications of the University of Cincinnati, Series II, Volume II, number 1, 1906. Pp. 160.

Selections from the Torrence Papers [edited]. *Quarterly of the Historical and Philosophical Society of Ohio,* July-October, 1906.

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Thesis: The Life and Work of Christoval Suarez de Figueroa.

Member of Phi Beta Kappa, 1902.

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PUBLICATIONS:

On the Relation of Congreve's "Mourning Bride" to Racine's "Bajazet." *Modern Language Notes,* November, 1904.

Some Notes on "La Constante Amarilis" of Christoval Suarez de Figueroa. *Modern Language Notes,* January, 1906.

Some Notes on a Rare Collection of Spanish Entremeses. *Modern Language Notes,* February, 1907.

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Member of the Modern Language Association of America, 1902; American Dialect Society, 1903.

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PUBLICATIONS:

The Works of Fulke Greville [Thesis]. Privately printed, 1901. Pp. 59.

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Thesis: The Early English Religious Lyric.

Member of the Modern Language Association of America, 1900.

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PUBLICATIONS:

The Middle English Poems on the Joys and on the Lament of Mary. *Catholic University Bulletin,* July, 1902.

Macaulay's Essays on Milton and Addison. *Mosher's Magazine,* December, 1902.

Addison's Sir Roger de Coverley Papers. *Ibid.,* April, 1903.

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PUBLICATIONS:

Translations of German Poetry in the American Magazines, 1741-1810, together with Translations of Other Teutonic Poetry and Original Poems, Referring to the German Countries [Thesis]. *Americana Germanica,* 1905. Pp. 229.

List of Translations of German Prose and List of Articles on the German Countries appearing in American Magazines, 1811-1830. *German-American Annals,* October, December, 1905; February, 1906.

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Thesis: Phonetically Written Proper Names as found in Babylonian and Assyrian Contract Tablets.

Member of the American Oriental Society, 1898; Recording Secretary of the Pennsylvania Chautauqua, 1904 to date.

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PUBLICATIONS:

Some Babylonian Contract Tablets. *Reformed Church Messenger,* 1900.

With Pick and Spade Through Bible Lands. *Heidelberg Teacher,* March, December, 1903.

Editor of *The Pennsylvania Chautauquan,* 1905 to date.

JAMES WALKER DOWNER

A.B., A.M. (Virginia, 1895, 1897): Latin. Assistant Master, McCabe's University School, Richmond, Virginia, 1897-1898. Acting Professor of Latin, Richmond College, Richmond, Virginia, 1898-1899. Principal of Public Schools, Clifton Forge, Virginia, 1899-1900. Instructor in

Latin, Marion Military Institute, Marion, Alabama, 1900-1903; absent on leave, 1903-1905. Wood Fellow, 1903-1904; Fellow, 1904-1905; Ph.D. (Pennsylvania, 1905); University Fellow for Research, 1905-1908. Acting Professor of Latin, Friends' Central School, Philadelphia, 1905-1906. Instructor in Latin and German, Marion Military Institute, 1906 to January, 1907. Supply in Latin, January-June, 1907; Professor of Latin, Friends' Central School, Philadelphia, June, 1907, to date. Instructor in Greek, University of Pennsylvania, 1907 to date.

Thesis: Figurative Language in the Satirae of Petronious.

Member of Classical Club, 1905.
Address: 3739 Locust Street, Philadelphia.

BURTON SCOTT EASTON

B.S. (Pennsylvania, 1898): Mathematics. Fellow, 1900-1901; Ph.D. (Pennsylvania, 1901); Senior Fellow, 1901-1902. Instructor in Mathematics, Iowa University, 1898-1899. Instructor in Mathematics, University of Pennsylvania, 1902-1905. B.D. (Philadelphia Divinity School, 1906). Ordained Priest in the Protestant Episcopal Church, December 17, 1906. Instructor in New Testament Exegesis at Nashotah House, Wisconsin, 1905-1906; Professor of New Testament Exegesis, 1906 to date.

Member of Phi Beta Kappa, 1897; Sigma Xi, 1901; American Mathematical Society, 1902; Society of Biblical Literature and Exegesis, 1907.

Address: Nashotah, Wisconsin.

Publications:

The Sun-Dial of Ahaz. *Popular Astronomy*, May, 1899.

The Galois Theory in Burnside and Panton's Theory of Equations. *Bulletin of the American Mathematical Society*, May, 1902.

Lavasseur's Théorie des Groupes. *Ibid.,* June, 1903.

The Constructive Development of Group Theory [Thesis with additions]. Publications of the University of Pennsylvania; Series in Mathematics, 1903. Pp. 88.

Also articles on works and subjects connected with Biblical criticisms contributed to *The Living Church,* May-November, 1906.

WILLIAM HASTING EASTON

B.S. (Pennsylvania, 1900): Chemistry. Scholar, 1900-1901; Ph.D. (Pennsylvania, 1903). Chemist to the Teter-Heany Developing Company, York, Pennsylvania, 1903; Manager and Consulting Chemist, 1904-1906. Sales Manager, Heany Fire Proof Wire Company, York, Pennsylvania, 1906-1907. Vice-President, Coal Securities Company, Scranton, Pennsylvania, 1907 to date.

Member of the American Chemical Society, 1899; Sigma Xi, 1899.

Address: 424 Cornell Building, Scranton, Pennsylvania.

PUBLICATIONS:

The Reduction of Nitric Acid in Metallic Nitrates to Ammonia by the Electrolytic Current [Thesis]. Privately printed, 1903. Pp. 20.

Contributor to the *Chemical Engineer* and other technical journals.

Electro-Chemical Editor of the *Chemical Engineer,* 1905 to date.

HAROLD DONALDSON EBERLEIN

A.B. (Pennsylvania, 1896): History. Scholar, 1896-1897. Teacher of Latin, Academy of the Protestant Episcopal Church, Philadelphia, 1899-1904. Organist and Master of the Choir, St. Paul's Church, Camden, N. J., 1899 to date. Master of Latin in the Chester High School, 1905-1906. Master of Latin and History, Phillips Brooks School, Philadelphia, 1906 to date.

Member of the Pennsylvania Historical Society, 1897; American Historical Association, 1903; Genealogical Society of Pennsylvania, 1903; National Geographic Society, 1907.

Address: 4328 Osage Avenue, West Philadelphia.

FRANZ FREDERICK EXNER

A.B. (Carleton, 1895): Chemistry. Fellow, 1902-1903; Ph.D. (Pennsylvania, 1903). Professor of Chemistry in Carleton College, 1903 to date.

Member of the American Chemical Society, 1902; Sigma Xi, 1903.

Address: Northfield, Minnesota.

PUBLICATIONS:

The Rapid Precipitation of Metals in the Electrolytic Way [Thesis]. Privately printed. Pp. 24. Also published in *Journal of the American Chemical Society,* August, 1903.

Ammonium Vanadicophosphotungstate [with Dr. E. F. Smith]. *Journal of the American Chemical Society,* June, 1902.

The Atomic Weight of Tungsten [with Dr. E. F. Smith]. *Proceedings of the American Philosophical Society,* 1904.

The Rapid Deposition of Copper from a Boiling Solution by Electrolysis. Read before the Minnesota Section of the American Chemical Society, Spring, 1907.

WILLIAM FAIRLEY

A.B., A.M. (Amherst, 1878, 1883): European History. D.D. (Beloit, 1896). Ph.D. (Pennsylvania, 1897); Senior Fellow, 1897-1898, 1899-1900. Teacher of History, 1900-1903; Head of Department of History, Commercial High School, Brooklyn, New York, 1903 to date.

Thesis: The First Epoch of English Monasticism, A. D. 579-750.

Member of Phi Beta Kappa, 1878; American Historical

Association, 1899; New York State Historical Society, 1906.

Address: 195 Kingston Avenue, Brooklyn, New York.

PUBLICATIONS:

Seignobos' History of the Roman People, revised, translated and edited from the French. New York: Henry Holt and Company, 1902. Pp. 528.

Monumentum Ancyranum. University of Pennsylvania, Translation and Reprints from the Sources of European History, 1898. Pp. 91.

Notitia Dignatatum. *Ibid.*, 1898. Pp. 40.

JOHN BROOKIE FAUGHT

A.B., A.M. (Indiana, 1893, 1895): Mathematics. Fellow, 1898-1899; Ph.D. (Pennsylvania, 1899). Professor of Mathematics, Vincennes University, 1893-1894. Instructor in Mathematics, 1894-1899; Assistant Professor of Mathematics, Indiana University, 1899-1900. Professor of Mathematics, Northern State Normal School, Marquette, Michigan, 1900 to date.

Thesis: On Certain Development Coefficients Analogous to Bernoulli's Numbers.

Member of the American Mathematical Society, 1899; American Association for the Advancement of Science, 1901.

Address: 1312 Presque Isle Avenue, Marquette, Michigan.

PUBLICATIONS:

On the Reduction of Irrational Algebraic Integrals to Rational Algebraic Integrals. *Proceedings of the Indiana Academy of Science,* 1897.

Lilavati. *Normal College News,* December, 1905.

PIERCE PHILIP FERRIS

A.B., A.M. (Columbia, 1903; Harvard, 1904): Philosophy. Fellow, 1904-1905. Fellow in Philosophy, Columbia University, 1905-1906.

Address: It has not been possible to obtain the address of Mr. Ferris since he left Columbia University.

BENJAMIN FRANKLIN FINKEL

B.S., M.Sc. (Ohio Northern, 1888, 1891): Mathematics. Professor of Mathematics and Physics, Drury College, 1895 to date. University Scholar in Mathematics, University of Chicago, 1895-1896. Special Fellow in Mathematics, 1903-1904; A.M. (Pennsylvania, 1904); Fellow, 1905-1906; Ph.D. (Pennsylvania, 1906).

Thesis: Determination of All Groups of Order 2^m which Contain Cyclic Self-Conjugate Sub-Groups of Order 2^{m-4}, and whose Generating Operations Correspond to the Partitions (m-4, 4), (m-4, 3, 1).

Member of the American Mathematical Society, 1891; London Mathematical Society, 1898; Circolo Mathematico di Palermo, 1902.

Address: Springfield, Missouri.

Publications:

A Mathematical Solution Book. Springfield, Missouri: Kibler and Company. First Edition, 1893, pp. 352. Second Edition, 1897, pp. 395. Third Edition, 1899, pp. 481. Fourth Edition, 1902, pp. 549.

Editor of the *American Mathematical Monthly*, 1894, to date.

HENRY FOX

B.S. (Pennsylvania, 1899): Zoölogy. Scholar, 1899-1900; Fellow, 1901-1902. Instructor in Biology, University of Wisconsin, 1902-1903. A.M., Ph.D. (Pennsylvania.

1903, 1905). Professor of Biology, Temple College, 1903 to date. Instructor in Natural Science, Northeast Manual Training High School, Philadelphia, 1905 to date.

Thesis: The Pharyngeal Pouches and their Derivatives in the Mammalia.

Member of Sigma Xi, 1900; Academy of Natural Sciences of Philadelphia, 1901; American Association for the Advancement of Science, 1903; Association of American Anatomists, 1904.

Address: 4440 North Nineteenth Street, Philadelphia.

PUBLICATIONS:

The Development of the Tympano-Eustachian Passage and Associated Structures in the Toad (Bufo lentiginosus). *Proceedings of the Academy of Natural Sciences of Philadelphia,* 1901.

ROBERT HARVEY GAULT

A.B. (Cornell, 1902): Psychology. Fellow in Psychology, Clarke University, 1902-1903. Fellow, 1903-1905; Ph.D. (Pennsylvania, 1905). Appointed Honorary University Fellow, Clarke University, 1905-1906; resigned. Professor of Psychology and Pedagogy, Washington College, Chesterton, Maryland, 1905 to date.

Member of Sigma Xi, 1902; Phi Eta, 1904; National Society for the Scientific Study of Education, 1907.

Address: Chesterton, Maryland.

PUBLICATIONS:

A Sketch of the History of Reflex Action in the Latter Half of the Nineteenth Century. *American Journal of Psychology,* October, 1904.

Conditions Affecting the Maximal Rate of Voluntary Extensor and Flexor Movements of the Right Arm [Thesis]. *Ibid.,* July, 1905. Pp. 32; 3 plates.

Psychology for Teachers. *Atlantic Educational Journal,* November, 1906-July, 1907.

History of the Questionaire Method in Psychology. *American Journal of Psychology,* March, 1907.

ALLISON GAW

B.S. (Pennsylvania, 1900): English. Scholar, 1900-1901, Professor of English, Temple College, 1901-1906. A.M. (Pennsylvania, 1906); Fellow, 1906-1907; Ph.D. (Pennsylvania, 1907).

Thesis: The Adventures of Five Hours, A Tragi-Comedy by Sir Samuel Tuke.

Member of Phi Beta Kappa, 1900.

Address: 3732 Sansom Street, Philadelphia.

ALBERT ANTHONY GIESECKE

B.S. (Pennsylvania, 1904): Transportation and Commerce. Scholar, 1904-1905. Graduate Student of the University of Berlin, winter, 1905, 1906; Lausanne, summer, 1906. Assistant in Politics, Cornell University, 1906-1907.

Address: 7029 Gray's Avenue, West Philadelphia.

WILLIAM HENRY GLASSON

Ph.B. (Cornell, 1896): Economics. Fellow, 1897-1898. Ph.D. (Columbia, 1900). Instructor in History and Civil Government in the George School, Pennsylvania, 1899-1902. Professor of Political Economy and Social Science, Trinity College, Durham, North Carolina, 1902 to date. Instructor in Economics, Cornell University, summer session, 1907.

Member of Phi Beta Kappa, 1895; American Economic Association, 1900; American Political Science Association, 1903.

Address: Durham, North Carolina.

PUBLICATIONS:

History of Military Pension Legislation in the United States [Thesis]. Columbia University Studies in History, Economics and Public Law, 1900. Pp. 136.

The State Military Pension System of Tennessee. *Annals of the American Academy of Political and Social Science,* November, 1901.

The National Pension System as Applied to the Civil War and the War with Spain. *Ibid.,* March, 1902.

The College Professor in the Public Service. *South Atlantic Quarterly,* July, 1902.

The South and Service Pension Laws. *Ibid.,* October, 1902.

Moses Coit Tyler and Charles Sumner. *Ibid.,* January, 1903.

A Recent Southern Book on the Negro. *Ibid.,* January, 1903.

Recent Books on Social and Industrial Questions. *Ibid.,* April, 1903.

Reciprocity. *Ibid.,* July, 1903.

A Costly Pension Law—Act of June 27, 1890. *Ibid.,* October, 1904.

The Railroads and the People. *Ibid.,* January, 1906.

The Statistics of Lynchings. *Ibid.,* October, 1906.

Joint Editor (with Edwin Mims) of the *South Atlantic Quarterly,* April, 1905, to date.

The South's Care for Her Confederate Veterans. *Review of Reviews,* July, 1907.

OLIVER EDMUNDS GLENN

A.B., A.M. (Indiana, 1902, 1903): Mathematics. Teacher of Mathematics, High School, Elwood, Indiana, 1901-1902. Instructor in Mathematics, Indiana University, 1902-1903. Fellow, 1903-1905; Ph.D. (Pennsylvania, 1905). Acting Professor of Mathematics, Drury College, 1905-1906. Instructor in Mathematics, University of Pennsylvania, 1906 to date.

Member of Sigma Xi, 1904; American Association for the Advancement of Science, 1904; American Mathematical Society, 1905.

Address: 202 Maple Avenue, Lansdowne, Pennsylvania.

PUBLICATIONS:

Motion of a Particle on the Helix Surface. *Proceedings of the Indiana Academy of Science,* 1903.

A Method of Transvection in the Actual Coefficients. *American Mathematical Monthly,* April, May, 1905.

Note on Groups of Order p^2q^2. *Ibid.,* May, 1905.

Determination of the Abstract Groups of Order p^2qr; p, q and r being Distinct Primes [Thesis]. *Transactions of the American Mathematical Society,* January, 1906. Also published separately. Pp. 18.

On a Class of Operation Groups of Order $p_1^{m_1}\mu_1\, p_2^{m_2}\mu_2$ *Bulletin of the American Mathematical Society,* May, 1906.

Associate Editor of the *American Mathematical Monthly,* 1905-1906.

HYMAN LEO GRABOSKY

A.B. (Pennsylvania, 1902): Classical Languages. Scholar, 1902-1903; Fellow, 1903-1904; A.M. (Pennsylvania, 1904); University Scholar, 1904-1905.

Address: 620 South Tenth Street, Philadelphia.

ALEXANDER GRANT

A.B. (Pennsylvania, 1900): European History. Scholar, 1900-1901; A.M. (Pennsylvania, 1902). Teacher in the Berkeley School, New York, 1902-1904; University School, Detroit, Michigan, 1904-1905; Hill School, Pottstown, Pennsylvania, 1905 to date.

Address: Pottstown, Pennsylvania.

FERDINAND HARRY GRASER

B.S. (Pennsylvania, 1903); Economics. Scholar, 1903-1904; A.M. (Pennsylvania, 1905). Assistant Financial Editor of the *North American,* September 1, 1903-February 1, 1906; Financial Editor, February 1, 1906-October 1,

1906. Secretary, Nevada Wonder Mining Company, Philadelphia, July 10, 1907, to date.

Address: 1940 North Eleventh Street, Philadelphia.

PUBLICATIONS:

The Voting Trust in Railway Finance. *Railway World,* May, 1904.

Railroad Methods of Aiding Immigrants. *Ibid.,* June, 1904.

Tendencies in State Taxation of the Railroads. *Ibid.,* July, 1904.

Trade Unions and Trade Agreement Machinery. *Ibid.,* December, 1905.

Railway Pooling in the United States. *Ibid.,* May, 1906.

Uniformity in Railroad Accounts. *Ibid.,* July, 1906.

Express Companies and the Federal Law. *Ibid.,* September, 1906.

Associate Editor of the *Railway World,* March 1, 1904-March 1, 1907.

WILLIAM BACKUS GUITTEAU

Ph.B., A.M. (Ohio State, 1897; Cornell, 1901): Political Science. Fellow, 1902-1903; Ph.D. (Pennsylvania, 1904). Teacher of English and Civics in the Toledo High School, Toledo, Ohio, September, 1898-March, 1905. Secretary of the Detroit Municipal League, Detroit, Michigan, March 1 to September 1, 1905. Principal, Toledo Central High School, September 1, 1905, to date.

Address: 2039 Putnam Street, Toledo, Ohio.

PUBLICATIONS:

Molière's Le Bourgeois Gentilhomme (with P. A. Roi). New York: American Book Company, 1903. Pp. 135.

Constitutional Limitations upon Special Legislation Concerning Municipalities [Thesis]. Privately printed, 1905. Pp. 64.

JEREMIAH MARCUS HADLEY

B.S., A.M., (Earlham, 1896, 1898): Astronomy. Fellow, 1897-1899. Died in Philadelphia, January 6, 1899.

JAMES EDWARD HAGERTY

A.B. (Indiana, 1892): Sociology. Fellow, 1899-1900; Ph.D. (Pennsylvania, 1900); Senior Fellow, 1900-1901. Assistant Professor of Economics, 1901-1903; Assistant Professor of Economics and Sociology and Acting Head of the Department, 1903-1904; Professor, Ohio State University, 1904 to date.

Thesis: Changes in the Marketing of Products in their Effect upon Social Welfare.

Member of the American Economic Association, 1901; Associate Charities of Columbus, Ohio, 1903; American Sociological Society, 1906.

Address: Columbus, Ohio.

ROY DYKES HALL

B.S., M.S. (Wisconsin, 1900, 1902): Chemistry. University Scholar, 1903-1904; Ph.D. (Pennsylvania, 1904); Fellow for Research, 1904-1905; reappointed for 1905-1906, but resigned. Instructor in Chemistry, University of Wisconsin, 1905 to date.

Member of Phi Beta Kappa, 1900; Sigma Xi, 1904.

Address: Madison, Wisconsin.

PUBLICATIONS:

Observations on the Metallic Acids [Thesis]. Privately printed, 1904. Pp. 27.

Some Observations on Columbium (in collaboration with Dr. E. F. Smith). *Journal of the American Chemical Society,* November, 1905. Also published in *Proceedings of the American Philosophical Society,* 1905.

Combinations of the Sesquioxides with the Acid Molybdates. *Journal of the American Chemical Society,* May, 1907.

JOHN LOUIS HANEY

B.S. (Pennsylvania, 1898): English. Scholar, 1898-1899; Fellow, 1899-1900; Ph.D. (Pennsylvania, 1901);

Honorary Fellow in English, 1901-1903; University Fellow for Research, 1903-1907. Instructor in English and History, 1900-1903; Assistant Professor, 1904-1905; Assistant Professor of English Philology, Central High School, Philadelphia, 1905 to date; Head of the Department of English, Evening High School for Men, 1906 to date.

Member of Phi Beta Kappa, 1898; Modern Language Association, 1901; American Historical Association, 1901.

Address: 934 North Eleventh Street, Philadelphia.

PUBLICATIONS:

German Influence upon Samuel Taylor Coleridge [abridgement of Thesis]. Privately printed, 1902. Pp. 44.

A Bibliography of Samuel Taylor Coleridge. Privately printed, Philadelphia, 1903. Pp. 160.

Early Reviews of English Poets. Philadelphia: The Egerton Press, 1904. Pp. 288.

The Color of Coleridge's Eyes. *Anglia,* Vol. XXIII, 1900.

Goethe in England and America. *Modern Language Notes,* April, 1901.

Northanger Abbey. *Ibid.,* November, 1901.

German Literature in England Before 1790. *Americana Germanica,* June, 1902. Reprinted separately. Pp. 28.

Coleridge's "Christabel." *Notes and Queries,* December, 1902.

Coleridge as a Translator. *Ibid.,* November, 1903.

The Name of William Shakespeare: A Study in Orthography. Philadelphia: The Egerton Press, 1906. Pp. 78.

Mr. Sidney Lee's "Life of William Shakespeare." *Modern Language Notes,* April, 1906.

John Done's "Polydoron." *Ibid.,* May, 1906.

ULYSSES SHERMAN HANNA

A.B., A.M. (Indiana, 1895, 1898): Mathematics. Fellow, 1899-1901; Ph.D. (Pennsylvania, 1905). Assistant Professor of Mathematics, University of Indiana, 1901 to date.

Thesis: The Bitangentials of the Plane Quintic and Plane Sextic.

Member of the American Mathematical Society, 1900; Sigma Xi, 1900; Indiana Academy of Science, 1902.

Address: 828 Atwater Street, Bloomington, Indiana.

PUBLICATIONS:

Irrelevant Factors in Bitangentials of Plane Algebraic Curves. *Proceedings of the Indiana Academy of Science,* 1904.

WILLETT LEPLEY HARDIN

B.S. (Buchtel, 1893): Chemistry. Ph.D. (Pennsylvania, 1896); Senior Fellow, 1896-1899. Instructor in Physical and Technical Chemistry, University of Pennsylvania, 1899-1900. Consulting Chemist, 1900-1903. General Manager of the Symes Creek Coal Company, Chicago, Ill., 1903 to date.

Member of the American Chemical Society, 1897; American Institute of Mining Engineers, 1899; Sigma Xi, 1899; National Geographical Society, 1906.

Address: 814 Monadnock Building, Chicago, Illinois.

PUBLICATIONS:

Determination of the Atomic Masses of Silver, Mercury and Cadmium by the Electrolytic Method [Thesis]. *Journal of the American Chemical Society,* December, 1896.

Atomic Mass of Tungsten. *Ibid.,* August, 1897.

Derivatives and Atomic Mass of Palladium. *Ibid.,* 1898.

Traube's Physico-Chemical Methods (translated). Philadelphia: P. Blakiston's Sons and Company, 1898. Pp. 240.

The Rise and Development of the Liquefaction of Gases. New York: The Macmillan Company, 1899. Pp. 250.

BURT LAWS HARTWELL

B.Sc., M.S. (Boston, 1889; Massachusetts Agricultural College, 1900): Chemistry. Fellow, 1901-1903; Ph.D. (Pennsylvania, 1903). Associate Chemist, Rhode Island Agricultural Experiment Station, 1903 to date.

Member of the Association of Official Agricultural Chemists, 1891; American Chemical Society, 1896; Sigma Xi, 1903; Association for the Advancement of Science, 1906.

Address: Kingston, Rhode Island.

PUBLICATIONS:

The Actions of Organic Bases Upon the Rare Earths [Thesis]. Privately printed, 1903. Pp. 16.

Conditions Determining the Poisonous Action of Chlorids. Report of the Agricultural Experiment Station, Kingston, Rhode Island, 1902. Pp. 18.

Concerning the Function of Sodium When Used in Nitrate of Soda. *Ibid.*, 1903. Pp. 31.

Magnesium as a Manure. *Ibid.*, 1904. Pp. 42.

Determinations by the Method of Ignition with Magnesium Nitrate and by that of Digestion with Acids. *Journal of the American Chemical Society,* November, 1905.

The Effect of Postponing the Ammonium-Citrate Treatment of the Water-Insoluble Portion of Fertilizers. Report of the Agricultural Experiment Station, Kingston, Rhode Island, 1905. Pp. 4.

Notes on the Use of Acetic and Oxalic Acid for Extracting Charred Material in Preparing Ash. *Ibid.*, 1905. Pp. 6.

On the Effect of Liming upon Certain Constituents of a Soil. *Ibid.*, 1905. Pp. 11.

The Phosphoric Acid Removed by Crops, by Dilute Nitric Acid and by Ammonium Hydroxid from a Limed and Unlimed Soil Receiving Various Phosphates. *Ibid.*, 1905. Pp. 33.

Concerning the Functions of Sodium Salts. *Ibid.*, 1906. Pp. 100.

WILLIAM PETER HASEMAN

A.B. (Indiana, 1903): Physics. Assistant in Physics, 1903-1904; A.M. (Indiana, 1904); Instructor, University of Indiana, 1904-1905. Fellow, 1905-1906; Frazer Fellow, 1906-1907; Ph.D. (Pennsylvania, 1907). Assistant Professor of Physics, University of Indiana, 1907 to date.

Member of Sigma Xi, 1905.

Address: Linton, Indiana.

PUBLICATIONS:

A Method for the Determination of the Optical Constants of Metals in the Infra-Red. [Thesis]. Privately printed, 1907. Pp. 10; fig. 4.

HAROLD HEATH

A.B. (Ohio Wesleyan, 1893): Biology. Fellow, 1896-1898; Ph.D. (Pennsylvania, 1898). Assistant Professor of Invertebrate Zoölogy, 1898-1903; Associate Professor, Leland Stanford Jr. University, 1903 to date. Acting Naturalist on U. S. F. C. Str. "Albatross" with Alaska Salmon Commission, summer of 1903, during part of the explorations off California coast, spring and summer of 1904, and in Japan, summer of 1906.

Member of the California Academy of Sciences, 1895; American Society of Zoölogists, 1902; Washington, D. C., Academy of Sciences, 1904; Sigma Xi, 1903; President of the San Francisco Biological Club, 1905.

Address: Palo Alto, California.

PUBLICATIONS:

The Development of Ischnochiton [Thesis]. *Zoologische Jahrbucher,* July, 1897. Pp. 89; 5 plates.

External Features of Young Cryptochiton. *Proceedings of the Academy of Natural Sciences of Philadelphia,* 1898. Pp. 3; 1 plate.

Cymbuliopsis vitrea: A New Species of Pteropod [Heath and Spaulding]. *Ibid.,* 1901. Pp. 2.

Animal Forms [Jordan and Heath]. New York: Appleton and Company, 1902. Pp. 270.

The Anatomy of Epibdella squamula sp. nov. *Proceedings of the California Academy of Sciences,* 1902. Pp. 25; 2 plates.

The Habits of California Termites. *Biological Bulletin,* January, 1902.

The Breeding Habits of Cancer magister. *American Naturalist,* June, 1902.

The Function of the Chiton Subradular Organ. *Anatomischer Anzeiger,* October, 1903.

Animal Studies [Jordan, Kellogg and Heath]. New York: Appleton and Company, 1903. Pp. 459.

The Habits of a Few Solenogastres. *Zoologischer Anzeiger,* April, 1904.

The Larval Eye of Chitons. *Proceedings of the Academy of Natural Sciences of Philadelphia,* 1904. Pp. 2.

The Anatomy of a Pteropod, Corolla spectabilis Dall [Heath and Spaulding]. *Zoologische Jahrbucher,* June, 1904.

The Nervous System and Subradular Organ in Two Genera of Solengastres. *Zoologische Jahrbucher,* October, 1904.

The Excretory and Circulatory Systems of Cryptochiton Stelleri. *Biological Bulletin,* September, 1905.

A New Genus and Species of Solenogastres. *Zoologischer Anzeiger,* December, 1905.

The Morphology of a Solenogastre. *Zoologische Jahrbucher,* June, 1905.

The Breeding Habits of Chitons of the California Coast. *Zoologischer Anzeiger,* September, 1905.

A New Species of Semper's Larva from the Galapagos Islands. *Ibid.,* May, 1906.

The Anatomy and Systematic Position of a New Species of Nectonemertes [Cravens and Heath]. *Ibid.,* November, 1906.

WESLEY LYNN HEMPHILL

A.B. (Pennsylvania, 1904): Classical Languages. Scholar, 1904-1905; A.M. (Pennsylvania, 1905). Student, Princeton Theological Seminary, 1905 to date.

Member of Phi Beta Kappa, 1903.

Address: Riverton, New Jersey.

JOHN BELL HENNEMAN

B.A., M.A. (Virginia, 1883, 1884): English. Instructor and Assistant Professor in Wofford College, South Carolina, 1884-1886. Graduate student, University of Berlin, 1886-1889; Ph.D. (Berlin, 1889). Lecturer in English, University of Chicago, Summer Session, 1889. Professor of English, Hampden-Sidney College, Virginia,

1889-1893. Professor of English, University of Tennessee, 1893-1900. Professor of English, the University of the South, Sewanee, Tennessee, 1900 to date. Fellow for Research, 1903-1904.

Member of the Modern Language Association of America for 1889, and frequently member of the Executive Council; American Historical Association from 1890, and member of Committee; Southern History Association from its organization; Association of Schools and Colleges in the Southern States from its organization and three times representing it; member of the National Committee on College Entrance Requirements in English; Tennessee Philological Association from its organization; former member of the Virginia Historical Society and sometime member of its Executive Council; Anaconda Club at Hampden-Sidney, Virginia; Irving Club at Knoxville, Tennessee; E. A. B. Club at Sewanee, Tennessee, etc.

Address: Sewanee, Tennessee.

PUBLICATIONS:

Untersuchungen ueber das mittelenglische Gedicht. "Wars of Alexander" [Thesis]. Privately printed, Berlin, 1889. Pp. 88.

General Editor of the Series of English Classics for the B. F. Johnson Company, Richmond, Virginia.

Historical Elements in Virginia Education. Virginia Historical Publications, edited by R. A. Brock, Richmond, Virginia. Vol. XI, 1801.

The History of Hampden-Sidney College. Hampden-Sidney College *Kaleidoscope,* Vol. I, 1893.

Two Pioneers in the Study of English: Thomas Jefferson and Louis F. Klipstein. *Publications of the Modern Language Association,* 1894.

The Building of the President's House at Hampden-Sidney College. Hampden-Sidney College, *Kaleidoscope,* Vol. III, 1895.

English in Southern Universities. Appeared in "English in American Universities," by William Morton Payne. Boston: D. C. Heath and Company, 1895.

Jonathan Peter Cushing: A New England President of Hampden-Sidney College. Hampden-Sidney College *Kaleidoscope,* Vol. VI, 1898.

The Episodes in Shakespeare's Henry VI. *Publications of the Modern Language Association,* 1900.

Barnfield's Ode: "As It Fell Upon a Day." In the Furnival Memorial Volume, London, 1901.

James Lane Allen: A Study. In Baskervill's "Southern Writers," Volume II. Nashville: Barbee and Smith, 1903.

The Works of Thackeray (edited jointly with Professor W. P. Trent, of Columbia University). New York: Thomas Y. Crowell & Son, 1904. Thirty volumes.

Twelfth Night. By William Shakespeare [edited]. Longmans' *English Classics.* New York: Longmans, Green and Company, 1905. Pp. xxviii, 135.

Henry Esmond. By William Makepeace Thackeray [edited]. Macmillan's *Pocket Series.* New York: The Macmillan Company, 1906. Pp. 591.

Certain Ballads and Folk Songs Heard and Collected in Eastern North Carolina. *Publications of the Modern Language Association,* 1907.

Best American Short Stories [edited with W. P. Trent]. New York: Thomas Y. Crowell and Company, 1907. Pp. xxiii, 350.

An indefinite number of contributions at various times to the *University of Virginia Magazine,* Charleston, S. C.; *News and Courier, Dispatch,* Richmond, Va.; *Times, The Carolina Spartan,* Spartansburg, S. C.; *Christian Observer,* Louisville, Ky.; *Union Seminary Magazine, Hampden-Sidney Magazine, The Kaleidoscope,* Hampden-Sidney, Va.; *Tribune, Sentinel,* Knoxville, Tenn.; *Times,* Chattanooga, Tenn.; *The National Magazine, The Nation, The Evening Post, Literary Digest,* New York; *Modern Language Notes,* Baltimore, Md.; *Virginia Historical Magazine,* Richmond, Va.; *The Sewanee Review,* New York and Sewanee, Tenn.; *The Churchman,* New York; *The Reader Magazine,* Indianapolis, Indiana, etc.

Literary Editor of *The Dispatch,* Richmond, Va., 1892, 1893; of the *Sentinel,* Knoxville, Tenn., 1896; Editor of the *Sewanee Review,* 1900 to date.

PAUL RENNO HEYL

B.S. (Pennsylvania, 1894): Mathematics. Fellow, 1897-1898; Ph.D. (Pennsylvania, 1899); Honorary Fellow in Physics, 1902-1903. Instructor in Physics and Mathematics, Boys' High School, Reading, Pennsylvania, 1898-1902. Instructor in Physics and Chemistry, 1902-1905; Assistant Professor of Physics, Central High School, Philadelphia, 1905 to date.

Thesis: The Theory of Light on Hypothesis of a Fourth Dimension.

Member of the American Association for the Advancement of Science, 1905.

Address: 305 North Thirty-seventh Street, Philadelphia.

PUBLICATIONS:

Crystallization Under Electrostatic Stress. *Physical Review,* February, 1902.

Crystallization from a Current Bearing Electrolyte. *Ibid.,* December, 1902.

A Résumé of Our Knowledge of the Physical Properties of Current-Bearing Matter. *Journal of the Franklin Institute,* March, 1904.

Some Physical Properties of Cement Bearing Matter. I. Tensile Strength; II. Melting Point. III. Boiling Point. *Physical Review,* October, 1904; September, 1905.

JOEL HENRY HILDEBRAND

B.S. (Pennsylvania, 1903): Chemistry. Assistant in Chemistry, 1904-1905; Scholar, 1905-1906; Ph.D. (Pennsylvania, 1906). Graduate student, University of Berlin, 1906-1907. Instructor in Chemistry, University of Pennsylvania, 1907 to date.

Member of Phi Beta Kappa, 1903; Sigma Xi, 1903.
Address: Wayne, Pennsylvania.

PUBLICATIONS:

The Determinations of Anions in the Electrolytic Way [Thesis]. Privately printed, 1906. Pp. 16; 3 figures.

ERNEST GODFREY HOFFSTEN

B.S. (Pennsylvania, 1901): English. Scholar, 1901-1902; Fellow, 1903 to January 31, 1904. Teacher of English, Wm. McKinley High School, St. Louis, Missouri, February, 1904, to date. Ph.D. (Pennsylvania, 1905). Lecturer on English Literature, Patterson Spring's Chautauqua, Illinois, summer of 1906. Leader of Section on "Shakespeare and his Predecessors" in the St. Louis Society of Pedagogy, 1906-1907.

Thesis: The Floating Island, by William Strode of Oxford, written in 1636. Reprinted with notes and an introduction.

Member of the St. Louis Society of Pedagogy, 1904; National Educational Association, 1904.
Address: St. Louis, Missouri.

PUBLICATIONS:

The Swedes in Philadelphia To-day. *German-American Annals,* July, 1903.
Bernard Shaw and His Dramas. *Sewanee Review,* April, 1904.
Swinburne's Poetic Theories and Practice. *Ibid.,* January, 1905.

ARTHUR HOLMES

A.B. (Hiram College, 1899): Philosophy. University Scholar, 1901-1903; Fellow, 1903-1904. Pastor of the Sixth Christian Church, Philadelphia, 1899-1903. Pastor of the Memorial Christian Church, Ann Arbor, Michigan, and Assistant Instructor of the Bible Chair, 1904-1905. Religious and Educational Work Director, P. R. R. Y. M. C. A., Philadelphia, 1905 to date.
Address: P. R. R. Y. M. C. A., West Philadelphia.

FRANK EDWARD HORACK

B.Ph., A.M. (Iowa, 1897, 1899): Political Science. Student at Halle and Berlin, 1900-1901. Fellow, 1901-1902; Ph.D. (Pennsylvania, 1902). Instructor in Political Science, 1902-1906; Assistant Professor, State University of Iowa, 1906 to date.

Member of the American Political Science Association, 1903; State Historical Society of Iowa, 1903 (secretary, 1903 to date); Political Science Club, 1903 (Iowa); Iowa Anthropological Association, 1903; Iowa State Conference of Charities and Corrections, 1905.

Address: Iowa City, Iowa.

PUBLICATIONS:

Constitutional Amendments in the Commonwealth of Iowa. *Iowa Historical Record,* April, 1899. Also reprinted separately. Pp. 34.

The League of Iowa Municipalities. *Iowa Journal of History and Politics,* April, 1902.

The Horseshoers' Strike of Philadelphia. *American Journal of Sociology,* November, 1902.

Some Phases of Corporate Regulation in Iowa. *Iowa Journal of History and Politics,* July, October, 1904. Also reprinted separately. Pp. 50.

Recent Amendments to the Constitution of Iowa. *Ibid.,* April, 1905.

The Organization and Control of Industrial Corporations [Thesis]. The Equity Series, Vol. V, No. 4. Philadelphia: C. T. Taylor, 1905. Pp. 207.

A Brief History of the Political Science Club of the State University of Iowa. *Iowa Journal of History and Politics,* April, 1907. Also reprinted separately. Pp. 30.

GORDON VINCENT HOSKINS

A.B. (Pennsylvania, 1904): Classical Languages. Scholar, 1904-1905. Inspector, Shop Inspection Department, Western Electric Company, New York City, 1905-1906.

Stenographer, Economic Life Insurance Company, Pennsylvania Building, Philadelphia, 1906 to date.

Address: 4504 Chester Avenue, Philadelphia.

WILLIAM EDWARD HOWARD

B.S., M.S. (Northwestern, 1899): Astronomy. Instructor in Mathematics, High School, Fort Dodge, Iowa, 1899-1901. Professor of Mathematics, Marionville Collegiate Institute, 1901-1903. Instructor in Astronomy and Mechanics, University of Indiana, 1903 to date; absent on leave, 1904-1905. Fellow, 1904-1905.

Member of Sigma Xi, 1906.

Address: Bloomington, Indiana.

PUBLICATIONS:

Measures of Double Stars (with Professor John A. Miller). *The Astronomical Journal,* January 25, 1907.

Should Astronomy be Taught in the High Schools? *The Exponent,* Marionville Collegiate Institute, Marionville, Missouri, March, April, 1907.

ARTHUR CHARLES HOWLAND

A.B. (Cornell, 1893): European History. Fellow, 1896-1897; Ph.D. (Pennsylvania, 1897); Senior Fellow, 1898-1899. Instructor in History, University of Illinois, 1897-1898. Instructor in History, Teachers' College, Columbia University, 1899-1904. Assistant Professor of European History, University of Pennsylvania, 1904 to date.

Thesis: A History of the Use of the Interdict by the Church.

Member of Phi Beta Kappa, 1893; American Historical Association, 1896; Association of History Teachers of the Middle States and Maryland, 1902.

Address, Philadelphia, Pennsylvania.

PUBLICATIONS:

Ordeals, Compurgation, Excommunication and Interdict. University of Pennsylvania, Translations and Reprints from the Original Sources of European History, 1898. Pp. 34.

The Trial of Gilles de Rais, Called Bluebeard. *The Illini,* Vol. XXVII, No. 20, 1898.

The Early Germans. University of Pennsylvania, Translations and Reprints from the Sources of European History, 1899. Pp. 34.

The Origin of the Local Interdict. *Annual Report of the American Historical Association,* 1899. Pp. 18.

Explorations Within the Louisiana Purchase. *The Journal of Geography,* June, 1904.

Mommsen's History of Rome [edited]. History of Nations, Vol. III. Philadelphia: J. D. Morris and Company, 1906. Pp. 418.

SOLOMON HUEBNER

B.L., M.L. (Wisconsin, 1902, 1903): Economics. Fellow, 1903-1904; Assistant in Commerce, 1904-1905; Ph.D. (Pennsylvania, 1905); Instructor in Commerce and Insurance, University of Pennsylvania, 1905 to date. Collaborator for the Carnegie Institution on the subject of "The History of the Foreign Trade of the United States," 1904-1905.

Member of Phi Beta Kappa, 1902.

Address: Philadelphia, Pennsylvania.

PUBLICATIONS:

The Distribution of Stockholdings in American Railways. *Annals of the American Academy of Political and Social Science,* November, 1903.

Foreign Inheritance Taxes. In Ely's "Evolution of Industrial Society." New York: Macmillan and Company, 1903.

Main Features of the Present Foreign Trade of the United Kingdom. *Annals of the American Academy of Political and Social Science,* January, 1904.

The Inheritance Tax in the American Commonwealths. *Harvard Quarterly Journal of Economics,* August, 1904.

Relation of the Government in Germany to the Promotion of Commerce. *Annals of the American Academy of Political and Social Science,* November, 1904.

The Business of Marine Insurance with Especial Reference to the United States [Thesis]. *Annals of the American Academy of Political and Social Science,* September, 1905. Pp. 78.

Insurance: a series of papers on Life, Fire, Marine, Accident and Liability Insurance, read before the Wharton School of Finance and Commerce, of the University of Pennsylvania, during the academic year 1904-1905 [edited]. *Annals of American Academy of Political and Social Science,* 1905.

Insurance Legislation During the Year 1905. Published by the New York State Library, Review of Legislation, 1905. Pp. 12.

Federal Supervision and Regulation of Insurance. *Annals of the American Academy of Political and Social Science,* November, 1905.

Study of Insurance in American Universities. *Ibid.,* July, 1906.

State Supervision and Regulation of Fire Insurance Companies. Read before the Fire Insurance Society of Philadelphia, February 19, 1906. Published in the Year Book of the Fire Insurance Society of Philadelphia for 1906. Pp. 24.

Insurance Legislation During the Year 1906. New York State Library, Review of Legislation, 1906. Pp. 15.

Japan's Supremacy Over America in the Pacific Trade. *The Business World,* September, 1906.

Gains to the Policyholder from the Insurance Investigation. *Ibid.,* October, 1906.

New York Insurance Legislation and Cost of Life Insurance. *Ibid.,* November, 1906.

New York Insurance Legislation and Life Insurance Investments. *Ibid.,* December, 1906.

How a Fire Insurance Rate is Made. *Ibid.,* January, 1907.

Is There a Fire Insurance Trust? *Ibid.,* February, 1907.

Credit Insurance. *Ibid.,* June 1907.

JOSEPH WOLSTON HUFF

A.B. (Pennsylvania, 1905): European History. Scholar, 1905-1906; A.M. (Pennsylvania, 1906). With the Girard Trust Company, Philadelphia, 1906 to date.

Member of the American Historical Association, 1906.

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LESLIE HOWARD INGHAM

A.B., A.M. (Dartmouth, 1889, 1892): Chemistry. Fellow, 1903-1904; Ph.D. (Pennsylvania, 1904). Professor of Chemistry, Kenyon College, 1893 to date; absent on leave, 1903-1904.

Member of Phi Beta Kappa, 1893; American Chemical Society, 1903.

Address: Gambier, Ohio.

PUBLICATIONS:

The Use of a Rotating Anode in the Electrolytic Estimation of Zinc and of Nitric Acid [Thesis]. Privately printed, 1904. Pp. 29.

EDGAR SHUGERT INGRAHAM

A.B. (Colgate, 1897): Romanics. Instructor in Modern Languages, Colgate University, 1897-1899. Fellow, 1902-1903; Ph.D. (Pennsylvania, 1903). Assistant Professor of Romance Languages, Ohio State University, 1903 to date.

Address: Columbus, Ohio.

PUBLICATIONS:

Apropos of a Seventeenth Century Article on J. A. de Baïf. *Modern Language Notes,* June, 1902.

Neuf Mois Sur Vingt Ans: A Date in the Life of J. A. de Baïf. *Ibid.,* May, 1903.

Review of Matzke's Edition of Corneille's Cinna. *Ibid,* June, 1903.

Victoria y Otros Cuentos. Boston: D. C. Heath and Company, 1905. Pp. 166.

The Source of Les Amours de Jean Antoine de Baïf [Thesis]. Privately printed, 1905. Pp. 60.

HENRY DOWNING JACOBS

A.B. (Pennsylvania, 1899): Pedagogy. Scholar in English, 1899-1900; Fellow in Pedagogy, 1901-1903. Assistant Editor, the Prang Educational Company, New York, 1903 to date.

Address: The Prang Educational Company, 113 University Place, New York.

MERKEL HENRY JACOBS

A.B. (Pennsylvania, 1905): Botany. Scholar, 1905. 1906; Assistant in Zoölogy, University of Pennsylvania, 1906 to date.

Member of Phi Beta Kappa, 1904; Sigma Xi, 1905.

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FLEMING JAMES

A.B., A.M. (Pennsylvania, 1895, 1896): Classical Languages. Scholar, 1896-1897; Fellow, 1897-1899; Ph.D. (Pennsylvania, 1899). Entered the ministry of the Protestant Episcopal Church; in charge of St. Andrew's P. E. Church, Philadelphia, November, 1901, to July, 1902; Church of the Saviour, Shanghai, China, September 1, 1902-March 11, 1906. Minister in charge, St. Anna's Mission, Philadelphia, May 6, 1906, to date. Instructor, University of Pennsylvania, 1907 to date.

Thesis: The Peace of Philocrates.

Member of Phi Beta Kappa, 1894.

Address: 25 North Paxon Street, Philadelphia.

CHESTER LLOYD JONES

B.L. (Wisconsin, 1902): Political Science. University Scholar in Political Science, University of Wisconsin, 1903-

1904. Fellow, 1904-1906; Ph.D. (Pennsylvania, 1906); Fellow for Research, 1906-1907; Instructor in Political Science, University of Pennsylvania, 1907-to date.

Member of Phi Beta Kappa, 1902; International Vereinigung fur Vergleichende Rechtswissenschaft und Volkswirthschaftslehre, 1905; Geographical Society of Philadelphia, 1906; American Academy of Political and Social Science, 1907.

Address: Philadelphia, Pennsylvania.

PUBLICATIONS:

Madrid: Its Government and Municipal Services. *Annals of the American Academy of Political and Social Science,* January, 1906.

American Municipal Services from the Standpoint of the Entrepreneur. *Ibid.,* November, 1906.

Editor of the Book Department and Associate Editor of the *Annals of the American Academy of Political and Social Science,* 1906-1907.

The Consular Service of the United States; its History and Activities [Thesis]. Publications of the University of Pennsylvania; Series in Political Economy and Public Law, 1907. Pp. ix, 126.

THOMAS CARLYLE JONES

B.S. (Pennsylvania, 1903); Mathematics. Scholar, 1903-1904. University Scholar, Columbia University, 1904-1905; M.A. (Columbia, 1905). Fellow, University of Pennsylvania, 1905-1906. Graduate Student, University of Göttingen, January, 1906-September, 1906.

Address: Brooklyn, Baltimore, Maryland.

PUBLICATIONS:

The Law of Uniform Seniority. *Journal of the Institute of Actuaries,* London, England, July, 1906.

FREDERICK BITTLE KEGLEY

A.B., A.M. (Roanoke College, 1900, 1901): Economics. Scholar, 1905-1906.

Address: Wytheville, Virginia.

CARL KELSEY

A.B. (Iowa, 1890): Sociology. Fellow, 1901-1903; Ph.D. (Pennsylvania, 1903); Instructor in Sociology, 1903-1904; Assistant Professor, University of Pennsylvania, 1904-1907; Professor, 1907 to date. Assistant Director, New York School of Philanthropy, Summer Session, 1905 to date.

Member of the American Academy of Political and Social Science, 1903; American Sociological Society, 1905; National Conference of Charities and Corrections, 1906. State Corresponding Secretary, National Conference of Charities and Corrections, 1906. Secretary of the American Academy of Political and Social Science, 1905 to date.

Address, Philadelphia, Pennsylvania.

PUBLICATIONS:

The Negro Farmer [Thesis]. Chicago: Jennings and Pye, 1903. Pp. 103.

Studies in Local Philanthropy. Syllabus for Young Friends' Association. Philadelphia: Ferris and Leach, 1904. Pp. 16.

American Race Problems. Syllabus for Young Friends' Association. Philadelphia: Ferris and Leach, 1906. Pp. 16.

Assistant Editor of the *Annals of the American Academy of Political and Social Science,* 1904 to date.

ROLAND GRUBB KENT

A.B., B.L., M.A. (Swarthmore, 1895, 1896, 1898): Classics. Instructor in Lower Merion High School, Ardmore, Pennsylvania, 1896-1899. Student, Berlin, Munich and Athens, 1899 to January, 1902. Fellow, 1902-1903;

Ph.D. (Pennsylvania, 1903); Fellow for Research, 1903-1904. Instructor in Greek and Latin, University of Pennsylvania, 1904 to date.

Member of Phi Beta Kappa, 1896; American Philological Association, 1903; Classical Club of Philadelphia, 1903; Bibliographical Club, 1907.

Address: 3608 Walnut Street, Philadelphia.

PUBLICATIONS:

Chalcis and the Euripus from the Mainland. *The Critic,* Hopkin's Grammar School, New Haven, Connecticut, June, 1902.

On Albinovanus Pedo vv. 1-7 apud Sen. Suas. I. 15. *Classical Review,* July, 1903.

A History of Thessaly from the Earliest Historical Times to the Accession of Philip V of Macedonia [Thesis]. Printed in part, 1904. Pp. viii, 27.

The Date of Aristophanes' Birth. *Classical Review,* April, 1905.

The City Gates of Demetrius. *American Journal of Archæology,* April-June, 1905.

When Did Aristophanes Die? *Classical Review,* April, 1906. Appeared also in the *Proceedings of the American Philological Association,* 1906.

SIMON KOPPE

Graduate (Gymnasium of Breslau, Germany): Semitics. Fellow, 1896-1898; Ph.D. (Pennsylvania, 1898). Lost at sea by sinking of La Bourgogne, July 4, 1898.

Thesis: The Business Documents of Murashu Sons.

JOSEPH STANCLIFFE KRATZ

A. B., A. M. (Pennsylvania, 1896, 1897): American History. Scholar, 1896-1897. Attorney-at-law.

Member of Phi Beta Kappa, 1896.

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LOUIS KRAUTTER, Jr.

B.S. (Pennsylvania, 1902): Botany. Scholar, 1902-1903. Student Assistant, U. S. Bureau of Forestry, 1903-1904. Graduate Student and Assistant in Botany, 1904-1906; Ph.D. (Pennsylvania, 1906). Instructor in Botany, University of Pennsylvania, 1906 to date.

Thesis: The Genus Pentstemon.

Address: 1007 Lehigh Avenue, Philadelphia.

QUINCY ADAMS KUEHNER

A.B. (Muhlenberg, 1902): Psychology. University Scholar, 1902-1903; Fellow, February 1-August 31, 1904. Principal, High School, Palmerton, Pennsylvania, 1904-1905. M.A. (Muhlenberg, 1905). Supervising Principal of Schools, Walnutport, Pennsylvania, 1905 to date.

Address: Walnutport, Pennsylvania.

EZRA LEHMAN

Ph.B. (Bucknell, 1899): English. Fellow, 1901-1903; Ph.D. (Pennsylvania, 1903). Member of the editorial staff of the J. B. Lippincott Company engaged in the preparation of a new dictionary of the English language based upon Worcester's Dictionary, 1903-1906. Teacher of English, Commercial High School, Brooklyn, New York, 1906 to date.

Address: Tenth Street and Elmhurst Avenue, Elmhurst, New York.

Publications:

The Tragedie of Chabot Admirall of France; by George Chapman and James Shirley [Thesis]. Publications of the University of Pennsylvania; Series in Philology and Literature. Philadelphia: The John C. Winston Company, 1906. Pp. 124.

ORLANDO FAULKLAND LEWIS

A.B., A.M. (Tufts College, 1895, 1897): Germanics. Fellow, 1898-1900; Ph.D. (Pennsylvania, 1900). Assistant Professor of Modern Languages, 1900-1901; Professor, 1901-1903; Professor of German, University of Maine, 1903-1905. Superintendent of the Joint Application Bureau, New York City, connected with the Charity Organization Society and the Association for Improving the Condition of the Poor, 1906 to date.

Thesis: Statistical History of German Drama in Philadelphia.

Member of Phi Beta Kappa, 1895; Maine Association of Colleges and Preparatory Schools, 1901; Maine Modern Language Association, 1901; Modern Language Association of America, 1902; New York State Conference of Charities and Correction, 1905; National Conference of Charities and Correction, 1906; Association for Sanitary and Moral Prophylaxis, 1907.

Address: 105 East Twenty-second Street, New York City, New York.

PUBLICATIONS:

Report of Committee on Preparatory Schools and Courses of the Maine Modern Language Association, 1902. State Print, Augusta, Maine. Pp. 35.

Germelshausen. Boston: D. C. Heath and Company, 1902. Pp. 91.

Report of Committee on Preparatory Schools and Courses of the Maine Modern Language Association, 1905. State Print, Augusta, Maine. Pp. 50.

Self-Supporting Students in American Colleges. *North American Review,* November, 1904.

Editorial Writer for the *Boston Transcript,* 1902-1906.

CHARLES HENRY LINCOLN

A.B., A.M. (Harvard, 1893, 1894): American History. Assistant in History and Political Science, Harvard Uni-

versity, 1893-1894. Instructor in History and Political Science, Bates College, 1894-1895. Ph.D. (Pennsylvania, 1896); Senior Fellow in Political Science, 1896-1897; in American History, 1898-1899. Instructor in History and English Literature at the Delancey School, Philadelphia, 1897-1898. Assistant in the Manuscripts Division of the Congressional Library, 1899-1900; First Assistant, 1900 to 1906. In the Manuscript Department of the American Antiquarian Society, Worcester, Massachusetts, 1906 to date.

Thesis: The Origin of the Second Chamber in France.

Member of the American Historical Association, 1898; Columbia Historical Society, 1901; Bibliographical Society of America, 1905.

Address: Worcester, Massachusetts.

PUBLICATIONS:

The Cahiers of 1789 as an Evidence of a Compromise Spirit. *American Historical Review,* January, 1897.

Rousseau and the French Revolution. *Annals of the American Academy for Political and Social Science,* July, 1897.

Representation in the Pennsylvania Assembly. *Pennsylvania Magazine of History and Biography,* April, 1899.

The Revolutionary Movement in Pennsylvania, 1760-1776 [monograph based upon work as Senior Fellow]. Publications of the University of Pennsylvania; Series in History, 1901. Pp. 300.

Friedenwald and Lincoln; Calendar of the Washington MSS. in the Library of Congress. Washington: Government Printing Office, 1901. Pp. 315.

Manuscripts in the Library of Congress. *Annals of the American Academy of Political and Social Science,* March, 1902.

Washington's Plan for the Attack at Germantown. *Pennsylvania Magazine of History and Biography,* October, 1902.

A Calendar of the John Paul Jones MSS. in the Library of Congress. Washington: Government Printing Office, 1903. Pp. 316.

Naval MSS. in National Archives. *The Literary Collector,* January, 1904.

Some MSS. of Early Presidents. *Ibid.,* May, 1904.

Some Harvard MSS. in the Library of Congress. *Harvard Graduates' Magazine,* March, 1905.

John Paul Jones and Our First Triumphs on the Sea. *American Monthly Review of Reviews,* July, 1905.

Material in the Library of Congress for a Study of United States Naval History. *Proceedings and Papers of the Bibliographical Society of America,* 1904-1905.

A Calendar of the Manuscript Naval Records of the American Revolution, 1775-1788, now in the Library of Congress. Washington, D. C.: Government Printing Office, 1906. Pp. 525.

Assistant in the issuance of a revised "Guide to the Archives of the Government of the United States in Washington," Bureau of Historical Research of the Carnegie Institution, 1907 to date.

WILLIAM EZRA LINGELBACH

A.B. (Toronto, 1894): European History. Fellow in French, Toronto University, 1894-1895. Fellow, 1899-1900; Ph.D. (Pennsylvania, 1901); Instructor in European History, 1900-1903; Assistant Professor, University of Pennsylvania, 1903 to date.

Member of the American Historical Association, 1899; American Academy of Political and Social Science, 1900; Pennsylvania Historical Society, 1903; Geographical Society of Philadelphia, 1904; Phi Beta Kappa, 1906.

Address: Philadelphia, Pennsylvania.

PUBLICATIONS:

The Doctrine and Practice of Intervention in Europe. *Annals of the American Academy of Political and Social Science,* May, 1900.

The Doctrine of Intervention. *Annuaire de L'Institut de Droit International,* 1900.

The Internal Organization of the Merchant Adventurers of England [Thesis]. Read before the Royal Historical Society, London, 1900, and printed in the *Transactions* of the Society, 1901. Pp. 56.

The Laws and Ordinances of the Merchant Adventurers of England. University of Pennsylvania, Translations and Reprints from the Original Sources of European History, 1902. Pp. xxxix, 260.

The Merchant Adventurers at Hamburg. *American Historical Review,* January, 1904.

Contemporary Europe, Asia and Africa, 1901-1905. "History of All Nations," Vol. XX. Philadelphia: Lea Brothers, 1906.

The History of Austria-Hungary. Based on the fourth edition of "L'Autriche-Hongrie," by Louis Leger, Paris, 1895. Philadelphia: John D. Morris and Company, 1907. Pp. xx, 514.

HORACE CRAIG LONGWELL

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HUGH SEARS LOWTHER

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Member of Phi Beta Kappa, 1899.

Address: New York City, New York.

PUBLICATIONS:

Notes on The Syntax of Martial [Thesis]. Privately printed, 1906. Pp. 40.

DANIEL DAVID LUCKENBILL

A.B. (Pennsylvania, 1903): Semitics. Scholar, 1903-1904; Fellow, 1904-1906. Fellow, University of Chicago, 1906-1907; Ph.D. (Chicago, 1907). Associate in the Semitic Languages and Literatures, University of Chicago, 1907 to date.

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PUBLICATIONS:

A Study of the Temple Documents from the Cassite Period [Thesis]. *American Journal of Semitic Languages and Literatures,* July, 1907. Also published separately.

GEORGE DANIEL LUETSCHER

B.L. (Wisconsin, 1898): Amreican History. Fellow, 1900-1902; Ph.D. (Pennsylvania, 1902). Teacher in the George School, Pennsylvania, 1902-1905. University Fellow for Research, 1905-1907. Secretary of the Pennsylvania Joint Committee on Election Codes, 1905-1906. Instructor in History, Jamaica High School, 1905 to date.

Member of the American Historical Association, 1901.

Address: Borough of Queens, New York City.

PUBLICATIONS:

Early Political Machinery in the United States [Thesis]. Privately printed, 1903. Pp. 160.

Industries of Pennsylvania, with Special Reference to Lancaster and York Counties. *German-American Annals,* March, April, 1903.

Recent Tendencies in Methods of Making Political Nominations. *South Atlantic Quarterly,* April, 1904.

VICTOR GRANT MARQUISSEE

A.B., A.M. (Wisconsin, 1904, 1905): Political Science. Fellow, 1905-1906; resigned March 31, 1906.

Member of Phi Beta Kappa, 1903.

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DANIEL ERNEST MARTELL

A.B., A.M. (Pennsylvania, 1898, 1900): Romanic Languages. Scholar, 1898-1899; Fellow, 1899-1900; Ph.D. (Pennsylvania, 1902); Honorary Fellow, 1902-1903. Private tutor, 1903-1907. Instructor in Romance Languages, Central High School, 1907 to date.

Member of Phi Beta Kappa, 1898.

Address: 3711 Locust Street, Philadelphia.

PUBLICATIONS:

The Dramas of Antonio de Solis y Rivadeneyra [Thesis]. Privately printed, 1902. Pp. 57.

JOSEPH MERRITT MATTHEWS.

B.S. (Pennsylvania, 1895): Chemistry. Fellow, 1896-1897; Ph.D. (Pennsylvania, 1898). Professor of Chemistry and Dyeing, Philadelphia Textile School, 1898-1904. Professor of Chemistry, Textiles and Pottery at Franklin Institute, 1904-1907. Delegate to the Fifth International Congress for Applied Chemistry, Berlin, 1903. Manager of the Chemical Department of the New England Yarn Company, 1907 to date.

Member of the American Chemical Society, 1898; Society of Chemical Industry, London, 1899; Society of Dyers and Colorists, Bradford, 1899; Franklin Institute, 1900.

Address: 65 Summer Street, Taunton, Massachusetts.

PUBLICATIONS:

Derivatives of the Tetrachlorides of Zirconium, Thorium, and Lead. *Journal of the American Chemical Society,* November, 1898.

Derivatives of the Tetrabromides of Zirconium and Thorium, *Ibid.,* November, 1898.

The Preparation of Zirconium Nitrides. *Ibid.,* November, 1898.

On the Separation of Iron, Zirconium and Certain other allied Metals. *Ibid.,* November, 1898.

Revised Allen's Commercial Organic Analysis. Vol. III, Part 1. Philadelphia: Paul Blakiston's Sons and Company, 1900.

The Synthesis of Indigo. *Journal of the Society of Chemical Industry,* June, 1901.

Artificial Indigo. *Journal of the Franklin Institute,* January, 1902.

Influence of Indigo Red in Indigo Dyeing. *Journal of the Society of Chemical Industry,* February, 1902.

The Action of Caustic Soda on Wool. *Ibid.,* May, 1902.

Some Phases of Textile Chemistry. *Ibid.,* December, 1902.

Present Status of the Dyeing and Printing Industries in the United States. Report of the Fifth International Congress for Applied Chemistry, Berlin, 1903. Pp. 14.

Articles on History of Dyeing, Printing, and Finishing in the "National History of American Manufactures." Boston: The Van Slyck Publishing Company, 1903.

Artificial Silk. *Journal of the Society of Chemical Industry,* February, 1904.

Influence of Scouring Agents on the Strength of Wool. *Ibid.,* June, 1905.

Sulphide Dyes. *Journal of the Franklin Institute,* March, 1905.

The Chemistry of Wool. *Ibid.,* May, 1905.

The Chemistry of Cotton Scouring. *Ibid.,* July, 1906.

Alexeyeff's General Principles of Organic Synthesis. Translation. New York: John Wiley, 1906. Pp. 288.

The Textile Fibres. New York: John Wiley, 1904. Second Edition, 1907. Pp. 480.

Also a number of articles on applications of chemistry in the textile industries contributed chiefly to the *Textile Colorist* and the *Textile American,* 1904-1906.

JESSE FRANCIS McCLENDON

B.S. (Texas, 1903): Zoölogy. Student Assistant in Zoölogy, University of Texas, 1900-1903; Fellow, 1903-1904; M.S. (Texas, 1904). Fellow, 1904-1906; Ph.D. (Pennsylvania, 1906). Professor of Biology and Physics, Randolph-Macon College, Ashland, Virginia, 1906 to date.

Thesis: On the Development of Parasitic Copepoda.

Member of Phi Beta Kappa, 1905; Sigma Xi, 1905; Fellow of Texas Academy of Science, 1906; American Association for the Advancement of Science, 1907.

Address: Ashland, Virginia.

PUBLICATIONS:

A New Species of Chrysopa from Texas. *Psyche,* June, 1901.

Life History of Ulula Hyalina Latr. *The American Naturalist,* June, 1902.

The Larvæ of Myrmeleon Texannus and M. rusticus. *Entomological News,* September, 1902.

Dimorphic Queens in an American Ant (jointly with Wheeler). *Biological Bulletin,* March, 1903.

On the Nervous System of the Scorpion. *Ibid.,* December, 1904.

On the Locomotion of a Sea Anemone. *Ibid.,* January, 1906.

Notes on the True Neuroptera. *Entomological News,* March, 1906.

The Myzostomes of the "Albatross" Expedition to Japan. *American Museum Bulletin,* May, 1906.

On the Development of Parasitic Copepods [Thesis]. *Biological Bulletin,* December, 1906, January, 1907.

New Marine Worms of the Genus Myzostoma. *Proceedings of the United States National Museum,* 1907.

Experiments on the Eggs of Chaetopterus and Asterias. *Biological Bulletin,* February, 1907.

ROSWELL CHENEY McCREA

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Bangor, Maine, 1905-1906. Professor of Economics, Summer Session, Columbia University, 1907.

Member of the American Economic Association, 1899; American Academy of Political and Social Science, 1900; Phi Beta Kappa, 1905.

Address: Brunswick, Maine.

PUBLICATIONS:

Tendencies in the Taxation of Transportation Companies. *Annals of the American Academy of Political and Social Science,* May, 1900.

Taxation of Transportation Companies in the United States [Thesis]. Printed in the Report of the United States Industrial Commission, 1901. Pp. 86.

The Causal Idea in History. *Bulletin* of the Eastern Illinois Normal School, July, 1902.

A Suggestion on the Taxation of Corporations. *Quarterly Journal of Economics,* May, 1905.

Discussion of the Present State of the Theory of Distribution. *Publications of the American Economic Association,* February, 1906.

The Taxation of Personal Property in Pennsylvania. *Quarterly Journal of Economics,* November, 1906.

Also book reviews for *The Baltimore Sun,* 1902-1905, and for the *Annals of the American Academy of Political and Social Science,* 1903-1904; and interviews on the immigration question in the *New York World,* and on the tariff in the *New York Evening Post.*

FRANCIS HERBERT McLEAN

A.B. (California, 1892): Sociology. Fellow, 1897-1898. Assistant Secretary, Brooklyn Bureau of Charities, May, 1898-May, 1900; General Secretary, Charity Organization Society of Montreal, May, 1900-May, 1902; as agent for the Committee of Fifty to report, with reference to New York and Brooklyn, upon the possibility of providing social substitutes for the saloon, which, together with similar

reports from other cities, were used by Mr. Raymond Calkins in his volume, "Substitutes for the Saloon," published by the Committee of Fifty (Houghton, Mifflin and Company), 1901; General District Secretary of the Chicago Bureau of Charities, May, 1902-November, 1905; Superintendent, Brooklyn Bureau of Charities, November, 1905, to date; Superintendent, Rehabilitation Committee of the San Francisco Relief and Red Cross Funds, July-August, 1906; Lecturer, New York School of Philanthropy, 1906 to date.

Member of the American Academy of Political and Social Science, 1897; National Conference of Charities and Correction, 1898; American Economic Association, 1898; National Consumers' League, 1902; and Chairman of its International Committee, 1902 to date (in this connection engaged in investigations, through correspondents, of the conditions of child labor and factory inspection in European countries); National Geographic Society, 1905; American Sociological Society, 1906.

Address: 69 Schermerhorn Street, Brooklyn, New York.

PUBLICATIONS:

Food Stores in the Tenth Ward. Yearbook of the University Settlement of New York for 1898. Pp. 5.

Bowery Amusements. *Ibid.,* 1899. Pp. 5.

Effects upon Private Charity of the Absence of all Public Relief. *Proceedings of the National Conference of Charities and Correction,* Washington, D. C., 1901. Pp. 7.

A Guiding Principle in Charitable Effort. *Proceedings, Fourth Canadian Conference of Charities and Correction,* Toronto, 1901. Pp. 5.

Scientific Exposition of Charity Organization Principles and Methods. *First Annual Report of the Charity Organization Society of Montreal,* Montreal, 1901. Pp. 28.

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Development of Thrift Projects. Ninth Annual Report of the Chicago Bureau of Charities, Chicago, 1902. Pp. 6.

A Guild for Social Work and Its Message to Settlements. *The Commons,* Vol. VIII, No. 88, November, 1903.

The Fence or the Ambulance? *Occasional Papers No. 2, Chicago Bureau of Charities,* Chicago, 1903. Pp. 28.

The Hard Winter in the Middle West. *Charities,* March, 1904.

Suggestions Regarding Local Co-operation Between a General Charity Organization or Relief Society and Other Charitable Agencies. *Occasional Papers No. 3, Chicago Bureau of Charities,* 1904. Pp. 6.

Ideals and Methods of Co-operation. *Proceedings of the Thirty-first National Conference of Charities and Correction,* Portland, Maine, 1904. Pp. 16.

Responsibilities of the Private Citizen in the Care of Public Dependents. *Ibid.,* 1904. Pp. 6.

Suburban Churches and Personal Service. *Charities,* October, 1904.

Child Labor in France. *Ibid.,* April, 1905.

The Formation of Charity Organization Societies in Smaller Cities. Published by the Field Department of *Charities and the Commons,* 1906. Pp. 24.

Child Labor in Belgium. *Annals of the American Academy of Political and Social Science,* September, 1906.

The Opportunity of the Churches. Published by the Charity Organization Society of Buffalo, New York, 1907. Pp. 8.

Associate Editor of the Field Department of *Charities and Commons,* 1906 to date.

IRA BENNETT McNEAL

A.B. (Dickinson, 1898): Pedagogy. Fellow, 1899-1901. Assistant Principal, 1901-1904; Principal, Lock Haven High School, 1904-1905. Teacher of Business Branches, Business High School, Washington, D. C., 1905 to date.

Member of Phi Beta Kappa, 1898.

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EDWARD SHERWOOD MEADE

A.B. (DePauw, 1896): Economics. Fellow, 1898-1899; Ph.D. (Pennsylvania, 1899); Senior Fellow, 1899-1900. Instructor, 1900-1904; Assistant Professor of Finance, 1904-1907; Professor, University of Pennsylvania, 1907 to date.

Thesis: Production and Value of Gold and Silver.

Member of Phi Beta Kappa, 1896; American Academy of Political and Social Science, 1899.

Address: Hammonton, New Jersey.

PUBLICATIONS:

Gold and Silver in Terms of Commodities. *Journal of Political Economy,* March, 1897.

Fall in Price of Silver Since 1873. *Ibid.,* June, 1897.

Production of Gold Since 1850. *Ibid.,* December, 1897.

Deposit Reserve Provisions of the National Banking Law. *Ibid.,* March, 1898.

Relative Stability of Gold and Silver. *Annals of the American Academy of Political and Social Science,* July, 1899.

Recent Production of Silver and Its Probable Future, *Forum,* November, 1899.

American Coal Supremacy. *Ibid.,* October, 1900.

Financial Aspects of the Trust Problem. *Ibid.,* November, 1900.

Reorganization of Railroads. *Ibid.,* March, 1901.

Limitations of Monopoly. *Ibid.,* April, 1901.

Genesis of U. S. Steel Corporation. *Quarterly Journal of Economics,* August, 1901.

Trust Finance. New York City: D. Appleton and Company, 1901. Pp. 377.

Capitalization of the United States Steel Corporation. *Quarterly Journal of Economics,* February, 1902.

Work of the Promoter. *Annals of the American Academy of Political and Social Science,* November, 1902.

Investor's Interest in the Demands of the Anthracite Miners. *Ibid.,* January, 1903.

Hodge Suit Against the United States Steel Corporation. *Quarterly Journal of Economics,* November, 1903.

Capitalization of International Mercantile Marine Company. *Political Science Quarterly,* March, 1904.

Great American Railways. *Railway World,* November, 1903-October, 1905.

Capitalization of Railroads Compared with Their Cost. *Journal of Accountancy,* March, 1906.

Investments of Marshall Field. *Business World,* March, April, 1907.

CHARLES JASTROW MENDELSOHN

A.B. (Pennsylvania, 1900): Classical Languages. Scholar, 1900-1901; Fellow, 1901-1903; Ph.D. (Pennsylvania, 1904); Fellow for Research in Classical Languages, 1904-1905. Tutor in Greek, College of the City of New York, 1905 to date.

Member of Phi Beta Kappa, 1900; Classical Association of the Middle States and Maryland, 1907.

Address: New York City, New York.

PUBLICATIONS:

Contributor to the "Jewish Encyclopædia," of articles on "Abraham," "Ark," "Chains," etc. New York: Funk and Wagnalls, 1901. Also contributor to the "New International Encyclopædia," articles on Semitic subjects. New York: Dodd, Mead and Company, 1902.

Studies in the Word-Play of Plautus: I. The Name-Play; II. The Use of Single Words in a Double Meaning. [Thesis with additions]. Publications of the University of Pennsylvania; Series in Philology and Literature, 1907. Pp. 120.

ISADORE MERZBACHER

A.B. (Pennsylvania, 1898): Classical Languages. Assistant in Latin, 1896-1897; Scholar, 1898-1899. Instructor in Classics, Collegiate Military School, Philadelphia, 1899-1901. Private tutor, 1901 to date.

Member of Phi Beta Kappa, 1897.

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ALBERT OSWALD MICHENER

B. S. (Pennsylvania, 1900) : American History. Scholar, 1900-1901. Professor of History, North East Manual Training School, Philadelphia, January 1, 1902, to date; Graduate Student, 1903-1905.

Address: 1701 Franklin Street, Philadelphia.

PUBLICATIONS:

An Old-Fashioned Christmas. *The Optimist,* December, 1903.

CHARLES REED MILLER

A.B. (Dickinson, 1887) : Germanic Languages. Principal of the Dunmore High School, Dunmore, Pennsylvania, 1890-1892. Professor of Modern Languages and Higher Latin, Genesee Wesleyan Seminary, Lima, New York, 1892-1893. Student at the Universities of Paris and Heidelberg, 1893-1894. Fellow, 1896-1897; Ph.D. (Pennsylvania, 1897). Senior Fellow, 1897-1898; resigned. Senior Instructor in Modern Languages, Lehigh University, 1897-1901. Professor of German, Polytechnic Institute, Brooklyn, 1901 to date.

Address: Brooklyn, New York.

PUBLICATIONS:

Prepositions in Hans Sachs [Thesis]. *Americana Germanica,* Vol. II, No. 2, 1898; No. 4, 1899. Pp. 32, 40.

WALTER MANN MITCHELL

B.S. (Pennsylvania, 1902) : Astronomy. Scholar, 1902-1903. Thaw Fellow in Astronomy, Princeton University, 1903-1906; Ph.D. (Princeton, 1905). Assistant Astronomer, Allegheny Observatory, September-November, 1906. Director of the Haverford College Observatory and Instructor in Astronomy, September, 1907, to date.

Member of the American Association for the Advancement of Science, 1904.

Address: 112 North Thirty-fourth Street, Philadelphia.

PUBLICATIONS:

The August Meteors. *Popular Astronomy,* November, 1901.

The Auroral Phenomena of August 21, 1903. *Ibid.,* December, 1903.

Reversed Lines in the Spectrum of Sun-spots. *Astrophysical Journal,* June, 1904.

Research in the Sun-spot Spectrum. Region T-a [Thesis]. *Ibid.,* July, 1905. Pp. 40.

The Level of Sun-spots. *Popular Astronomy,* September, 1905.

Relation between the Spectra of Sun-spots and Fourth Type Stars. *Astrophysical Journal,* April, 1906.

Results of Solar Observations at Princeton, 1905-1906. *Ibid.,* September, 1906.

JOHN RAYMOND MURLIN

B.S., A.M. (Ohio Wesleyan, 1897, 1899); Zoölogy. Fellow, 1899-1901; Ph.D. (Pennsylvania, 1901). Professor of Biology and Instructor in Chemistry, Ursinus College, 1901-1903. Instructor in Physiology, 1903-1906; Assistant Professor, University and Bellevue Hospital Medical College, New York City, 1906 to date.

Member of Sigma Xi, 1900; American Society of Zoölogists, 1901; Society for Experimental Biology and Medicine, 1904; American Association for the Advancement of Science, 1904; American Physiological Society, 1906.

Address: 338 East Twenty-sixth Street, New York City.

PUBLICATIONS:

Absorption and Secretion in the Digestive System of the Land Isopods [Thesis]. *Proceedings of the Academy of Natural Sciences of Philadelphia,* 1902. Pp. 15.

Tigerstelt's Text-Book of Physiology. Translated from the Third German Edition and edited. New York: D. Appleton and Company, 1906. Pp. xxxi, 751.

Substitution of Gelatin for Proteid with Maintenance of Nitrogen Equilibrium at the Starvation Level. *American Journal of Physiology,* June, 1907.

CHARLES DICKENS NASON

B.S. (Haverford, 1896): Pedagogy. Fellow, 1897-1899; Ph.D. (Pennsylvania, 1899). Professor of Pedagogy, Tri-State Normal School, Angola, Indiana, 1899-1901. Died at Angola, Indiana, April 21, 1901.

Thesis: The Schools of the Society for the Propagation of Christian Knowledge Among the Germans of Pennsylvania.

LEWIS IRVING NEIKIRK

B.S., M.S. (Colorado, 1898, 1901): Mathematics. Fellow, 1901-1903; Ph.D. (Pennsylvania, 1903); Fellow for Research, 1903-1905. Instructor in Mathematics, University of Illinois, 1905 to date.

Member of Sigma Xi, 1902; American Mathematical Society, 1903.

Address: Urbana, Illinois.

PUBLICATIONS:

Groups of order p^m which contain a cyclic sub-group of order p^{m-3} [Thesis]. Publications of the University of Pennsylvania; Series in Mathematics, No. 3, 1905. Pp. 66. Also published in abstract form in *Transactions of the American Mathematical Society,* 1905. Pp. 9.

HENRY JOHN NELSON

B.S. (Pennsylvania, 1899): Economics. Scholar, 1899-1900; Student in the Law Department, 1902-1905; L.L.B. (Pennsylvania, 1905). Labor Editor of the Philadelphia *North American,* 1899-1906. Practicing law.

Member of Philadelphia Law Academy, 1905; Philadel-

phia Law Association, 1905; Pennsylvania Law Association, 1906.

Address: 3859 Poplar Street, Philadelphia.

SIDNEY JOSE OSBORN

A.B., A.M. (Pennsylvania, 1902, 1903): Chemistry. Scholar, 1902-1903. Chemist, Spreckels Sugar Refining Company, Philadelphia, 1903 to date.

Member of the American Chemical Society, 1905.

Address: 4434 Sansom Street, Philadelphia.

LEWIS JOHN PAETOW

B.L., M.L. (Wsiconsin, 1902, 1903): European History. Scholar in European History, University of Wisconsin, 1902-1903. Teacher of History, High School, Grand Rapids, Wisconsin, 1903-1904. Acting Professor of History, University of Colorado, First Term, 1904-1905. Fellow, Second Term, 1904-1905; reappointed, 1905-1906; Ph.D. (Pennsylvania, 1906). Instructor in European History, University of Wisconsin, 1906-1907. Associate in European History, University of Illinois, 1907 to date.

Thesis: The Arts Course at the Medieval Universities, with Especial Reference to Grammar and Rhetoric.

Member of Phi Beta Kappa, 1901; Wisconsin Academy of Sciences, Arts and Letters, 1906.

Address: Urbana, Illinois.

PUBLICATIONS:

The Neglect of the Ancient Classics at Medieval Universities. *Transactions of the Wisconsin Academy of Sciences, Arts, and Letters,* 1907.

WILLIAM ROLLA PATTERSON

Ph.B. (Iowa, 1895): Political Science. Fellow, 1897-1898; Ph.D. (Pennsylvania, 1898). Assistant Instructor

in Economics and Statistics, 1898-1899; Instructor, 1899-1900; Assistant Professor in Charge of Economics and Statistics, University of Iowa, 1900-1901. Registrar, Bureau of Statistics, Tenement House Department, New York City, 1901-1904. Professor of Commerce and Statistics, University of Iowa, 1904-1906. Supervisor of the State Census, 1905. Accountant wih the firm of Haskins and Sells, New York City, 1906-1907. Accountant in Charge of Accounts and Statistics, Bureau of Municipal Research, No. 32 East Twenty-third Street, New York City, 1907 to date.

Thesis: Relation of State Municipality to Pawnbroking in Europe and the United States.

Member of the American Economic Association, 1899; American Academy of Political and Social Sciences, 1897.
Address: 32 East Twenty-third Street, New York City.

PUBLICATIONS:

Pawnshops in Europe and America. *Bulletin,* No. 21, Department of Labor, Washington, D. C., 1899. Pp. 138.

Introduction to "Manufactures of Iowa." Report of the Federal Census of 1900. Manufactures, Part II.

Plan for Uniform Statistics of Iowa Institutions. Bulletin, Board of Control of State Institutions of Iowa, Vol. II, March, 1900. Pp. 35.

County Poor Relief in Iowa. *Ibid.,* Vol. III, September, 1901. Pp. 30.

Statistics of Iowa Institutions. First Biennial Report of Board of Control of Iowa Institutions, 1901. Pp. 150.

Statistics of Iowa Institutions. Second Biennial Report of Board of Control of Iowa Institutions, 1903. Pp. 205.

Maps and Statistical Data Relative to the Tenement Population of the City of New York. First Annual Report of the Tenement House Department of the City of New York, 1902-1903. Pp. 227.

Census of Iowa, 1905. Introduction, maps, charts and general tables. Published by the Executive Council of Iowa, Des Moines, Iowa. Pp. cxxxi; 908.

The Budget of a Philanthropic Agency. Read before the National Conference of Charities and Corrections and published in their Report for 1906. Pp. 7.

Analysis of Expenditure of the Board of Health of New York City for the year 1906. Published in pamphlet form by the Bureau of Municipal Research, New York City, 1907.

WILLIAM THEODORE PAULLIN

A.B., A.M. (Bucknell, 1895, 1896): Philosophy. Student of the Crozer Theological Seminary, 1895-1898. Ordained to the Ministry of the Baptist Church, June 7, 1898. Pastor of the Cedarville Baptist Church, Cedarville, New Jersey, 1898-1901. University Scholar in Philosophy, 1900-1901; Fellow, 1901-1903; Ph.D. (Pennsylvania, 1904). Absent on leave at the University of Chicago, 1903-1904; B.D. (Chicago, 1904). Pastor of the First Baptist Church, Green Bay, Wisconsin, 1905 to date.

Thesis: The Datum of Knowledge; *das Gegebene* in the Transition from Kant to Fichte.

Address: Box 374, Green Bay, Wisconsin.

Publications:

A Review of the Ontological Argument. *American Journal of Theology,* January, 1906.

Christology in German Thought. *Ibid.,* January, 1907.

Recent Discussions of Philosophic Problems. *Ibid.,* July, 1907.

FREDERIC LOGAN PAXSON

B.S. (Pennsylvania, 1898): American History. Scholar in History and Economics, 1898-1899. Instructor in the Michigan Military Academy, Orchard Lake, Michigan, 1899-1900; in Blees' Military Academy, Macon, Missouri, 1900-1901. Graduate Student in Harvard University, 1901-1902; A.M. (Harvard, 1902). Fellow in American His-

tory, 1902-1903; Ph.D. (Pennsylvania, 1903). Assistant Professor of History, University of Colorado, 1903-1904; Professor, 1904-1906. Assistant Professor of American History, 1906-1907; Junior Professor, University of Michigan, 1907 to date.

Member of Phi Beta Kappa, 1898; American Historical Association, 1898; Friends' Historical Society of London, 1904; Historical Society of Pennsylvania, 1905.

Address: Ann Arbor, Michigan.

PUBLICATIONS:

The Independence of the South-American Republics: A Study in Recognition and Foreign Policy [Thesis]. Philadelphia: Ferris and Leach, 1903. Pp. 264.

Franchise Legislation in Missouri. *Annals of the American Academy of Political and Social Science,* May, 1904.

A Tripartite Intervention in Hayti, 1851. University of Colorado Studies, 1904. Pp. 323.

The Boundaries of Colorado. *Ibid.,* 1904. Pp. 8.

The Public Archives of the State of Colorado. Report of the American Historical Association, Washington, 1904. Pp. 22.

History and the Secondary School. Investigations of the Departments of Psychology and Education of the University of Colorado, 1905.

England and Mexico, 1824-1825. *Quarterly of the Texas State Historical Association,* October, 1905.

The Historical Opportunity in Colorado. University of Colorado Studies, 1905.

The Territory of Jefferson: A Spontaneous Commonwealth. *Ibid.,* 1905.

The Territory of Colorado. *American Historical Review,* October, 1906.

The County Boundaries of Colorado. University of Colorado Studies, 1906.

Preliminary Bibliography of Colorado History. *Ibid.,* 1906.

International Morality. *Friends' Intelligencer, Supplement,* Philadelphia, October, 1906.

LEONIDAS WARREN PAYNE, Jr.

B.S., M.S. (Alabama Polytechnic Institute, 1892, 1893): English. Assistant in English, Alabama Polytechnic Institute, 1893-1895. Teacher of English, Southwestern Alabama Agricultural School, 1895-1901. Professor of English, Alabama State Normal School, Jacksonville, 1901-1902. Special University Scholar, 1902-1903; Fellow, 1903-1904; Ph.D. (Pennsylvania, 1904). Member of the editorial force of J. B. Lippincott Company, engaged in the preparation of a new dictionary of the English language based on Worcester's Dictionary, 1904-1906. Assistant Professor of English, Louisiana State University, Spring Term, 1906. Instructor in English, University of Texas, 1906 to date.

Member of the American Dialect Society, 1906; Modern Language Association, 1907.

Address: Austin, Texas.

PUBLICATIONS:

The Stories of James Lane Allen. *Sewanee Review,* January 1900.

Thackery—An Essay and a Review of Melville's Life of Thackeray. *Ibid.,* October, 1900.

Sidney Lanier as a Lecturer. *Ibid.,* October, 1903.

A Neglected Elizabethan Poet—Humphrey Gifford. *Ibid.,* April, 1903.

The Hector of Germany [Thesis]. Publications of the University of Pennsylvania; Series in Philology and Literature, 1906. Pp. 146.

The University of Pennsylvania and the University of Texas, *Alumni Register,* May, 1907.

ROY HENDERSON PERRING

A.B. (Indiana, 1894): Germanics. Tutor in German, 1894-1896; A.M. (Indiana, 1896); Instructor, 1896-1904;

Assistant Professor, University of Indiana, 1904; resigned. Fellow, 1904-1905. Professor of Modern Languages, Iowa College, 1905 to date.

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EVERETT FRANKLIN PHILLIPS

A.B. (Allegheny, 1899): Zoölogy. Fellow, 1903-1904; Ph.D. (Pennsylvania, 1904); Fellow for Research, 1904-1905. Expert in Apiculture, Acting in Charge of Agricultural Investigations, Bureau of Entomology, Department of Agriculture, Washington, D. C., May 15, 1905-February 1, 1907; Expert in Charge of Apicultural Investigations, February 1, 1907, to date.

Member of Sigma Xi, 1903; Academy of Natural Sciences of Philadelphia, 1904; American Society of Zoölogists, 1904; Phi Beta Kappa, 1905; Washington Entomological Society, 1905; Washington Biological Society, 1905; Entomological Society of America, 1907; Member of numerous Bee Keepers' Societies.

Address: Bureau of Entomology, Washington, D. C.

PUBLICATIONS:

Comparative Variability of Drones and Workers of the Honey Bee (with D. B. Casteel). *Biological Bulletin,* December, 1903.

A Review of Parthenogenesis. *Proceedings of the American Philosophical Society,* 1903.

Variation in Bees; A Reply to Mr. Lutz. *Biological Bulletin,* June, 1904.

Structure and Development of the Compound Eye of the Honey Bee [Thesis]. *Proceedings of the Academy of Natural Sciences of Philadelphia,* 1905. Pp. 25; 3 plates. Abstract, *American Naturalist,* July, August, 1904.

The Habits of the Bee and some Misapprehensions. Pennsylvania State Department of Agriculture, Annual Report, 1905.

Experimental Apiculture. National Bee Keepers' Association, Report for 1905.

Series of Articles on Bees. New York State Department of Agriculture, Report, 1905.

The Rearing of Queen Bees. *Bulletin* No. 55, Bureau of Entomology, February, 1906. Pp. 32; 17 figures. Translated into French, 1906; Italian, 1907; German, 1907.

The Brood Diseases of Bees. *Circular* No. 79, Bureau of Entomology. 1906. Reprinted, *Proceedings of the National Bee Keepers' Association,* 1906; *Bee Keepers' Review,* 1906; *Canadian Bee Journal,* 1907; *Australian Bee Bulletin,* 1907.

Inheritance in the Female Line of Size of Litter in Poland China Sows (with G. M. Rommel). *Biometrika,* 1906. Also in *Proceedings of the American Philosophical Society,* 1907.

What Science can do for Apiculture. National Bee Keepers' Association, Report for 1906.

The Present Status of Bee Disease Investigation. Contained in Bulletin No. 70, Bureau of Entomology, 1907.

Variation and Correlation in the Honey Bee (abstract). *Science,* March, 1905.

Numerous brief articles on Bee Keeping in various apicultural journals, 1902 to date.

Editor of the Bee Keeping Department of *Suburban Life,* 1906 to date.

WARD WRIGHT PIERSON

B.S. (Northwestern, 1902): Political Science. Fellow, 1903-1904; Assistant in Political Science, 1904-1905; Instructor, University of Pennsylvania, 1905 to date.

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ARNO MAX EMIL POEBEL

Graduate (Karl-Friedrich Gymnasium, Eisenach, 1900); Semitics. Student in Indo-Germanic and Oriental Languages and in Theology at the following Universities: Heidelberg, Easter, 1900-Easter, 1901; Marburg, Easter, 1901-Autumn, 1901; Jena, Autumn, 1901-Easter, 1902; Zurich, Easter, 1902-Autumn, 1902; Jena, Autumn, 1902-

Christmas, 1904. Candidate in Theology, Jena, 1904. Fellow for Research, under terms of special appointment, January, 1905, to August, 1907. Ph.D. (Pennsylvania, 1906).

Thesis: Twenty-six Old Babylonian Legal Documents from the Period of Hammurabi, Samsuiluna, and Ammizada.

Address: Eisenach, Germany.

PUBLICATIONS:

Das Zeitliche Verhältnis der ersten Dynastie von Babylon zur zweiten Dynastie. *Zeitschrift für Assyriologie,* August, 1907.

Der bur-gal als Notar in Nippur. *Orientalistische Litteratur-Zeitung,* April, 1907.

Der Zehnte König der Dynastie von Isin. *Orientalistische Litteratur-Zeitung,* September, 1907.

HERMANN RANKE

Graduate (Gymnasium of Lübeck, 1897): Semitics. Student, University of Göttingen, 1897-1898; Greifswald, 1898-1899; Munich, 1899-1902; Berlin, 1902; Ph.D. (Munich, 1902). Research Fellow in Assyriology, 1902-December 31, 1904; Assistant Curator of the Egyptian Section, Museum of Science and Art, University of Pennsylvania, January 1, 1905-June 15, 1905. Assistant in the Egyptian Section of the Royal Museums at Berlin, July 15, 1905, to date.

Member of the Vorderasiatische Gesellschaft, Berlin, 1903; Oriental Club of Philadelphia, 1904; American Oriental Society, 1905; Deutsche Orientgesellschaft, Berlin, 1906.

Address: Steglitz, Sedanstrasse 41, Berlin, Germany.

PUBLICATIONS:

Die Personennamen in den Urkunden der Hammurabi-Dynastie [Thesis]. Privately printed, Munich, 1902. Pp. 54.

Early Babylonian Personal Names from the Published Tablets of the so-called Hammurabi Dynasty. Babylonian Expedition of the University of Pennsylvania, Series D, Vol. III, 1905. Pp. xiii, 225.

Babylonian Legal and Business Documents from the time of the First Dynasty of Babylon, chiefly from Sippar. *Ibid.*, Series A, Vol. VI, 1906. Pp. 77; pl. 84.

ARTHUR DOUGHERTY REES

B.S., A.M. (Pennsylvania, 1901, 1902): Economics. Scholar, 1901-1902; University Scholar, 1904-1905. Lecturer for the American Society for the Extension of University Teaching, the New York Board of Education, the Brooklyn Institute of Arts and Sciences, and the University of Chicago, Summer School, 1902 to date. Also engaged in teaching.

Address: 403 South Forty-first Street, Philadelphia.

PUBLICATIONS:

The Double Love: A Drama of American Life. Philadelphia: The John C. Winston Company, 1907. Pp. 85.

Columbus. Philadelphia: The John C. Winston Company, 1907. Pp. 130.

Editor of *The Optimist*, 1903-1904.

ALFRED BELDEN RICE

A.B., A.M. (Pennsylvania, 1900, 1903): English. Scholar, 1901-1902. Died October 1, 1903, at Hinsdale, Massachusetts.

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Graduate (Karlsgymnasium, Heilbronn a. N., 1895): Germanics. Student of Theological Seminaries of Maulbronn and Blaubeuren, 1895-1899; University of Tübingen,

1899-1902. Fellow of the Kgl. Eberhardstift, 1899-1902; Candidate in Philosophy, Grenoble, France, 1901; Traveling Fellow of the University of Tübingen, in London, 1902, Pennsylvania, 1903. Fellow, 1903-1905. University of Berlin, First Term, 1904-1905. Ph.D. (Pennsylvania, 1905); Fellow for Research, 1905-1906; Instructor in Germanics, University of Pennsylvania, 1906 to date.

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PUBLICATIONS:

Herder and Hogarth. *German American Annals,* March, 1904.

Gleim and Schiller. *Ibid.,* June, 1905.

Arno Holz. *Ibid.,* May, 1903.

Johann Wilhelm Ludwig Gleim's Imitations of the MHG. Minnesong [Thesis]. Privately printed, Stuttgart, Germany, 1905. Pp. 114.

Schwaebisches. A series of unpublished letters of Duke Karl Eugen, Duchess Franziske of Wuerttemberg and Karl Th. A. Maria von Dalberg. *German American Annals,* June, 1905.

Frankfurt and Cassel in Goethe's Time. From an unpublished letter of J. M. Dreyer to J. W. L. Gleim. October, 1905.

Walt Whitman and the Germans: A Study. Philadelphia: Americana Germanica Press, 1906. Pp. 45. Reprinted from *German American Annals,* January, February, March, 1906.

Franz Michael Leuchsenring's Expulsion from Berlin, May 25, 1792. From unpublished letters. *Ibid.,* June, 1906.

Ludwig Fulda's Place and Influence in German Literature. *Alumni Register,* May, 1906.

Ludwig Fulda: Ein Lebensbild. *Philadelphia Demokrat,* February 18, 1906.

ALLEN ROGERS

B.S., M.S. (Maine, 1897, 1900): Chemistry. Fellow, 1901-1902; Ph.D. (Pennsylvania, 1902); Senior Fellow, 1902-1903; Instructor, University of Pennsylvania, 1903-1904. Research Chemist with The Oakes Manufacturing

Company, Long Island City, New York, 1904-1905. Instructor in Industrial Chemistry, Pratt Institute, Brooklyn, New York, 1905 to date.

Member of the American Chemical Society, 1898; Sigma Xi, 1904; Society of Chemical Industry, 1905; American Leather Chemist Association, 1906.

Address: Brooklyn, New York.

PUBLICATIONS:

Derivatives of Complex Inorganic Acids [Thesis]. Privately printed, Philadelphia, 1902. Pp. 23.

Derivatives of New Complex Inorganic Acids. *Journal of the American Chemical Society,* March, 1903-November, 1904.

New Process for Puering or Bating Hides and Skins. *Journal of the Society of Chemical Industry,* February, 1906.

ABRAHAM S WOLF ROSENBACH

B.S. (Pennsylvania, 1898): English. Fellow, 1900-1901; Ph.D. (Pennsylvania, 1901); Honorary Fellow, 1901-1903; University Fellow for Research, 1903-1904. Director, Secretary and Treasurer, The Rosenbach Company, Philadelphia, 1904 to date.

Member of the Archæological Society, University of Pennsylvania, 1896.

Address: 1409 North Eighteenth Street, Philadelphia.

PUBLICATIONS:

The Curious-Impertinent in English Dramatic Literature before Shelton's Translation of Don Quixote. *Modern Language Notes,* June, 1902.

Dr. Johnson's Prologue Spoken at the Opening of the Drury-Lane Theatre, 1747. Edited from the only known copy (in possession of Dr. Rosenbach), with preface by Austin Dobson. New York: Dodd, Mead and Company, 1902. Pp. 24.

Influence of the Celestina in the Early English Drama [portion of Thesis]. *Jahrbuch der Deutschen Shakespeare-Gesellschaft,* Berlin, 1903. Also published separately. Pp. 18.

MARTIN SCHÜTZE

Graduate (Gymnasium of Güstrow, Germany, 1886): Germanics. Student, University of Freiburg, Baden, 1886; Rostock, 1887. Professor of Germanics, Beaver College, Beaver, Pennsylvania, 1894-1895; Beaver High School, 1895. Fellow, 1898-1899; Ph.D. (Pennsylvania, 1899); Senior Fellow, 1899-1901. Instructor in Germanics, Northwestern University, January to June, 1901. Associate Instructor in German Literature, 1901-1903; Instructor, 1903-1907; Assistant Professor of German Literature, University of Chicago, 1907 to date.

Member of the Modern Language Association of America, 1897; Philological Association, University of Chicago, 1901.

Address: Chicago, Illinois.

PUBLICATIONS:

Gerhart Hauptmann; Die Versunkene Glocke [Thesis]. *Americana Germanica,* April, 1899. Also published separately. Pp. 125.

Twelve Songs by Maeterlinck. Metrical Translations, with an introduction on Maeterlinck's Mysticism. Chicago: R. F. Seymour, 1902. Pp. 25.

Services of Naturalism to Life and Literature. *Sewanee Review,* October, 1902.

Crux Ætatis and other Poems. Boston: The Gorham Press, 1904. Pp. 54.

Repetition of a Word as a Means of Suspense in the German Drama under the Influence of Romanticism. *Modern Philology,* January, 1907.

Studies in German Romanticism. Chicago: The University of Chicago Press, 1907. Pp. 58.

THOMAS SELTZER

A.B. (Pennsylvania, 1897): Germanics. Scholar, 1897-1898. Student of the State College of Forestry, Cornell University, 1901-1902. Engaged in journalistic work,

Pittsburg, Pennsylvania, 1902-1904; Assistant Editor of *Current Literature,* New York City, 1905-1906. Engaged in literary work, New York, 1906 to date.

Address: 541 West 123d Street, New York City, New York.

PUBLICATIONS:

Mother, by Maxim Gorky; a Translation. *Appleton's Magazine,* 1906, 1907. In book form, New York: D. Appleton and Company, 1907. Pp. 500.
Assistant Editor, *Current Literature,* 1905-1906,
Contributor to various magazines.

FRED STRONG SHEPHERD

A.B., A.M. (Beloit, 1884, 1887): Political Science. White Fellow in Political and Social Science, Cornell University, 1895-1896. Fellow, 1896-1897; Ph.D. (Pennsylvania, 1897). Instructor in Economics, 1897-1898; Assistant Professor of Economics, Adelphia College, Brooklyn, 1898-1899. Superintendent of School, Asbury Park, New Jersey, 1899 to date.

Thesis: Government Regulation of Railroads in Massachusetts.

Member of the American Academy of Political and Social Science, 1892; American Economic Association, 1897.

Address: Asbury Park, New Jersey.

WARREN NEWTON SHUMAN

A.B. (Dickinson, 1902): European History. Instructor in Latin and Greek, High School, Steelton, Pennsylvania, 1902-1903. Scholar, 1904-1905. Entered Department of Medicine, University of Pennsylvania, 1905.

Address: Mainville, Pennsylvania.

EDGAR ARTHUR SINGER, Jr.

B.S. (Pennsylvania, 1892): Philosophy. Ph.D. (Pennsylvania, 1894). University Scholar, 1894-1895; Assistant in Philosophy, Harvard College, 1895-1896. Senior Fellow, 1896-1898; Instructor in Philosophy, 1898-1903; Assistant Professor, University of Pennsylvania, 1903 to date.

Thesis: The Composite Nature of Consciousness.

Member American Psychological Association, 1896; Sigma Xi, 1900; American Philosophical Association, 1902; Vice-President American Philosophical Association, 1902-1903; Phi Beta Kappa, 1906.

Address: Philadelphia, Pennsylvania.

Publications:

Studies in Sensation and Judgment, *Psychological Review,* May, 1897.

Sensation and the Datum of Science. Contributions from The Harvard Psychological Laboratory, 1898.

Choice and Nature. *Mind,* January, 1902.

On Final Causes [abstract]. *Philosophical Review,* February, 1902.

On Mechanical Explanation. *Philosophical Review,* May, 1904.

Note on the Physical World-Order. *The Journal of Philosophy, Psychology and Scientific Methods.* November, 1904.

Also various papers read before the American Psychological Society and abstracted in the Proceedings, reviews, etc.

CHARLES FISCHER SLADEN

B.S., A.M. (Pennsylvania, 1901, 1902): Germanics. Scholar, 1901-1902; University Scholar, 1902-1903. Instructor in Mathematics, Bryn Athyn Academy, January-June, 1902. Instructor, Brown Preparatory School, 1903-1906. Instructor in French, Germantown Academy, 1906 to date.

Member of Phi Beta Kappa, 1900.

Address: 3209 Sansom Street, Philadelphia.

BURNETT SMITH

B.S. (Pennsylvania, 1900): Geology. Assistant in Geology and Mineralogy, 1902-1905; Ph.D. (Pennsylvania, 1905); Research Fellow in Geology, 1905-1906; Instructor in Geology, University of Pennsylvania, 1905-1907. Assistant Professor, Syracuse University, 1907 to date.

Address: Skaneateles, New York.

PUBLICATIONS:

Senility Among Gastropods [Thesis]. *Proceedings of the Academy of Natural Sciences of Philadelphia,* 1905. Pp. 16; 2 plates.

Phylogeny of the Races of Volutilithes petrosus. *Ibid.,* 1906.

A Contribution to the Morphology of Pyrula. *Ibid.,* 1907.

A New Species of Athleta and a Note on the Morphology of Athleta petrosa. *Ibid.,* 1907.

HENRY BRADFORD SMITH

A.B. (Pennsylvania, 1903): Philosophy. Scholar, 1903-1904. Instructor in Mathematics, Tufts College, and student at Harvard, 1904-1905; Heidelberg, Summer Semester, 1905; Munich, 1906. Fellow, 1905-1907; reappointed, 1907-1908, resigned. Instructor in Mathematics, Carnegie Technical Schools, Pittsburg, 1907 to date.

Address: Pittsburg, Pennsylvania.

JOSEPH RUSSELL SMITH

B.S. (Pennsylvania, 1898): Economics. Fellow, 1902-1903; Ph.D. (Pennsylvania, 1903); Instructor in Commerce, 1903-1906; Assistant Professor of Geography and Industry, University of Pennsylvania, 1906 to date.

Member of the American Academy of Political and Social Science, 1904; Director of the Philadelphia Geographical Society, 1905.

Address: 5300 Media Street, Philadelphia.

PUBLICATIONS:

The Philippine Islands and American Capital. *Popular Science Monthly,* June, 1899.

Western South America and its Relations to American Trade. *Annals of the American Academy of Political Science,* November, 1901.

The Economic Geography of Chili. *Ibid.,* January, 1904.

The British System of Improving and Administering Ports and Terminal Facilities. *Ibid.,* November, 1904.

The Economic Importance of the Plateau in Tropic America. Proceedings of the Eighth International Geographical Congress, 1904.

The Grain Traffic and Ocean Freight Rates. *Dun's International Magazine,* November, 1905.

The Place of Economic Geography in Education. Meeting of the Association of American Geographers, 1905. Published in the *Minutes* of the meeting.

Organization of the Ocean Carrying Trade [Thesis]. Printed as part of a monograph, "Organization of Ocean Commerce." Publications of the University of Pennsylvania; Series in Political Economy and Public Law, 1905. Pp. 153.

Economic Geography and its Relation to Economic Theory and Higher Education. Meeting of the American Society for the Advancement of Science, July, 1906. Published in the *Minutes* of the meeting.

Ocean Freight Rates. *Political Science Quarterly,* June, 1906.

The North Atlantic Trade Routes. *Dun's International Review,* August, 1906.

Ocean Freight Rates and Their Control by Line Carriers. *Journal of Political Economy,* November, 1906.

The Steel Trust and Its Rivals. *The Business World,* November, 1906.

The Mediterranean Asiatic Trade Route. *Dun's International Review,* October, 1906.

The Good Hope Route. *Ibid.,* November, 1906.

The South Atlantic Route. *Ibid.,* February, 1907.

The Business Methods of the Tobacco Trust. *Business World,* December, 1906.

The Tobacco Trust and the Consumer. *Ibid.,* January, 1907.

The Tobacco Trust and the Tobacco Grower. *Ibid.,* February, 1907.

The Profits of the Steel Trust. *Ibid.,* April, 1907.

The North Pacific Trade Route. *Dun's International Review,* March, 1907.

The South Pacific Trade Route. *Ibid.,* April, 1907.

In addition to these, numerous short contributions to the *Friends' Intelligencer,* the *American Agriculturist,* the *Breeders' Gazette,* the *Annals of the American Academy of Political and Social Science,* and to local newspapers in Philadelphia and in Virginia.

RALPH OGDEN SMITH

B.S., A.M. (Rutgers, 1902; Pennsylvania, 1903): Chemistry. Assistant in Chemistry, 1903-1904; Scholar, 1904-1905; Ph.D. (Pennsylvania, 1905). Instructor in Chemistry, University of Wisconsin, 1905-1906. Assistant Professor in Chemistry, Pennsylvania State College, 1906 to date.

Member of Phi Beta Kappa, 1902; Sigma Xi, 1905.

Address: State College, Pennsylvania.

PUBLICATIONS:

The Rapid Precipitation of Lead and Mercury in the Electrolytic Way [Thesis]. Privately printed, 1905. Pp. 20; 2 figures.

HENRY WILSON STAHLNECKER

A.B., A.M. (Pennsylvania, 1899, 1900): Greek. Scholar, 1899-1900; Entered the Law Department, 1900; LL.B. (Pennsylvania, 1903). Attorney-at-law.

Member of Phi Beta Kappa, 1899.

Address: 622 Swede Street, Norristown, Philadelphia.

PUBLICATIONS:

Arrangement of Buildings in the Market-place at Athens. *University of Pennsylvania Bulletin,* Vol. IV., No. 6, 1900.

Recent School Legislation. Published by the Superintendent of Montgomery County, Norristown, Pa., 1905. Pp. 13.
Short stories, articles and reviews, *Red and Blue,* 1896-1900.
Articles and reviews, *American Law Register,* 1901-1903.

FRANK FLETCHER STEPHENS

Ph.B., Ph.M. (Chicago, 1904, 1905): American History. Fellow in American History, 1905-1907; Ph.D. (Pennsylvania, 1907). Lecturer in History, Summer Session, University of Maine, 1907. Instructor in American History, University of Missouri, 1907 to date.

Thesis: The Transition from the Government under the Articles of Confederation to that under the Constitution.

Member of American Historical Association, 1907.
Address: Columbia, Missouri.

CLARENCE STRATTON

B.S. (Pennsylvania, 1901): English. Scholar, 1901-1902; University Scholar, 1902-1903; Instructor in English, February-June, 1903; Fellow, 1903-1904; resigned, September, 1903. Instructor in English, Central High School, St. Louis, Missouri, 1903 to date. Ph. D. (Pennsylvania, 1905). Instructor in English, McKinley Evening High School, St. Louis, Missouri, 1905-1906.

Thesis: The Unnatural Combat: A Tragedy by Philip Massinger, 1639.

Member of Phi Beta Kappa, 1900; The Society of Cambridge, 1903.
Address: St. Louis, Missouri.

Publications:

Book reviews and literary articles in *The Philadelphia Times Book Review,* September, 1901-February, 1902.

Rhetoric in the High School. *Proceedings of the St. Louis Society of Pedagogy,* 1903-1904.

Perdition. Translated from the Italian of Mathelde Serao. *Tales,* October, 1905.

She Who Waits. Translated from the French of Maurice Le-Blanc. *Poet-Lore,* Spring number, 1905.

Joyzelle. Translated from the French of Maurice Maeterlinck. *Ibid.,* Summer number, 1905.

An Italian Landscape. Translated from the Italian of Gabrielle D'Annunzio. *Ibid.,* Autumn number, 1905.

Pierrot Dead. Translated from the French of Paul Verlaine. *Ibid.,* Winter number, 1905.

FRANK MACY SURFACE

A.B., A.M. (Ohio State, 1904, 1905): Zoölogy. Fellow in Zoölogy, Ohio State University, 1904-1905. Fellow, 1905-1907; Ph.D. (Pennsylvania, 1907); Research Fellow in Zoölogy, 1907-1908, resigned. Associate Biologist, Maine Experiment Station, 1907 to date.

Thesis: The Early Development of a Polyclad, Planocera inquilina, Wheeler.

Member of Sigma Xi, 1904; American Association for the Advancement of Science, 1904.

Address: Orono, Maine.

PUBLICATIONS:

Contributions to the Life History of Sanguinaria canadensis. *Ohio Naturalist,* September, 1906.

The Formation of New Colonies of the Rotifer, Megalotrocha alboflavicans Ehr. *Biological Bulletin,* September, 1907.

GLEN LEVIN SWIGGETT

A.B., A.M. (Indiana, 1888, 1893): Germanics, Ph.D. (Pennsylvania, 1901); Senior Fellow, 1901-1902. Acting Professor of German, University of Missouri, 1902-1903.

Professor of Modern Languages, University of the South, 1903 to date.

Thesis: Heinrich von Kleist and the Spanish Movement, with Special Reference to Penthesilea.

Address: Sewanee, Tennessee.

PUBLICATIONS:

The African Gnu. *Modern Language Notes,* February, 1897.
Baldr. *Ibid.,* November, 1897.
François Villon. *Sewanee Review,* April, 1899.
Poe and Recent Poetics. *Ibid.,* April, 1898.
Notes on the Finnsburg Fragment. *Modern Language Notes,* June, 1905.
French Genius in Criticism. *The Dial,* March, 1898.

THOMAS MAYNARD TAYLOR

B.S. (Oberlin, 1897): Chemistry. Fellow, 1899-1901; Ph.D. (Pennsylvania, 1901). Instructor in Chemistry, Oberlin College, 1901-1906. Appointed Instructor in Chemistry, Carnegie Technical Schools, Pittsburg, Pennsylvania, August, 1906. Suddenly deceased, February 26, 1907.

Member of the American Chemical Society, 1900.

PUBLICATIONS:

I. Atomic Weight of Tungsten. II. Ammonium Tungstates [Thesis]. Privately printed. Philadelphia, 1901. Pp. 43. Portion also published in *Journal of American Chemical Society,* July, 1902.

ARTHUR GUY TERRY

Ph.B., Ph.M. (Northwestern, 1901, 1902): European History. Fellow, 1902-1903. Instructor in History, University of Cincinnati, 1903-1904. Fellow, 1904-1905; Ph.D. (Pennsylvania, 1905); Instructor in History, Uni-

versity of Pennsylvania, 1905-1906. Instructor in History, Northwestern University, 1906 to date.

Thesis: The Spirit of Propagandism in the French Revolution, 1789-1793.

Member of Phi Beta Kappa, 1901.
Address: Evanston, Illinois.

ALFRED TINGLE

B.Sc. (Aberdeen, 1896; London, 1897): Chemistry. Fellow, 1897-1899; Ph.D. (Pennsylvania, 1899). Assistant in Chemistry, University of Wisconsin, 1899-1900. Assistant in Analytical Chemistry, Columbia University, 1900-1902. Assistant in Chemistry, University of Toronto, 1902-1903. Professor of Chemistry, Imperial Provincial College of Shantung, Chinanfu, Shantung, China, 1904-1906. Co-director of the Provincial Bureau of Education and Attaché to His Excellency the Governor of Shantung, 1906 to date.

Member of the American Chemical Society, 1901-1906; Fellow of the Chemical Society of London, 1904.

Address: Chinanfu, Shantung, China.

PUBLICATIONS:

Ammonia and Phenylledrazine derivatives of $\alpha\beta$ dibenzoylcinnamine (with F. R. Japp). *Transactions of the London Chemical Society,* 1897.

Action of Ethylic Oxalate on Camphor (with J. Bishop Tingle). *American Chemical Journal,* March, 1899.

The Influence of Substituents on the Electrical Conductivity of Benzoic Acid [Thesis]. *Journal of the American Chemical Society,* September, 1899. Pp. 11.

Condensation Compounds of Annines and Camphor Oxalic Acid (with J. Bishop Tingle). *American Chemical Journal,* March, 1900.

The Reactions of Aniline and Hydroxylamine with Hydroxy- and Unsaturated Compounds. *Ibid.,* July, 1900.

A New Synthesis of Secondary Annines. *Ibid.,* September, 1900.

The Synthesis of Annines by the Use of Alkyl Salicylates. *Ibid.,* February, 1901.

The Determination of Shrinkage in Raw Wool and Woollen Yarns (with W. Morrison). *Journal of the Society of Chemical Industry,* June, 1903.

Phenylisozazolone. *American Chemical Journal,* November, 1905.

WALTER SHELDON TOWER

A.B., A.M. (Harvard, 1903, 1904): Economic Geography. Assistant in Economic Geography, Harvard University, 1902-1904. Fellow, 1904-1906; Ph.D. (Pennsylvania, 1906); Instructor, University of Pennsylvania, 1906 to date.

Address: Philadelphia, Pennsylvania.

PUBLICATIONS:

A Regional and Economic Geography of Pennsylvania [Thesis]. *Bulletin of the Geographical Society of Philadelphia,* January-July, 1906. Also published separately. Pp. 69.

The Climate of the Philippines. *Bulletin of the American Geographical Society,* May-June, 1903.

Mountain and Valley Breezes. *Monthly Weather Review,* March, 1904.

The Development of Cut-off Meanders. *Bulletin of the American Geographical Society,* July, 1904.

Topography and Travel in Pennsylvania. *Ibid.,* April, 1905.

The Geography of American Cities. *Ibid.,* October, 1905.

A Field for Studies in Regional Geography. *Ibid.,* May, 1906.

Glaciation in Pennsylvania. *Ibid.,* October, 1906.

Political Geography of Pennsylvania. *Ibid.,* January, 1907.

Coal Mining and Front Steel Making in Pennsylvania. *Ibid.,* April, 1907.

A History of the American Whale Fishery. Publications of the University of Pennsylvania; Series in Political Economy and Public Law, 1907. Pp. x, 145.

Editor of the *Bulletin of the Geographical Society of Philadelphia,* 1906 to date.

CHARLES TRAVIS

B.S. (Pennsylvania, 1902): Mineralogy. Scholar, 1903-1904; Fellow, 1904-1906; Ph.D. (Pennsylvania, 1906); Assistant in Geology, University of Pennsylvania, 1905 to date.

Member of Sigma Xi, 1902.

Address: 209 De Kalb Square, Philadelphia.

PUBLICATIONS:

Pyrite from Cornwall, Lebanon County, Pennsylvania [Thesis]. *Proceedings of the American Philosophical Society,* 1906. Pp. 18.

HAROLD HARRISON TRYON

A.B. (Pennsylvania, 1900): Semitic Languages. Scholar, 1900-1901. Union Theological Seminary, 1901-1905; B.D. (Union Theological Seminary, 1905). M.A. (Columbia, 1905). Assistant Registrar, 1905-1906; Fellow, Union Theological Seminary, 1906-1907. Student at Berlin University, Winter, 1906; Heidelberg, Spring, 1907.

Member of Phi Beta Kappa, 1899.

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FRIEDRICH MARIA URBAN

Graduate (I. Deutsches Gymnasium in Brünn, 1897). Ph.D. (Vienna, 1902): Psychology. Engaged in research at Leipzig, 1902-1903; Harvard, February, 1904, to November, 1905. Fellow for Research in Psychology, 1905-1908.

Member of Phi Eta, 1906; Sigma Xi, 1907.

Address: 336 Foerderer, University Dormitories.

PUBLICATIONS:

Die Psychologie in Amerika. *Archiv für die Gesammte Psychologie,* Vol. III, 1904.

The Application of Calculus to Mental Phenomena. *Journal of Philosophy, Psychology and Scientific Methods,* January, 1905.

Sex Differences in the Estimation of Time. *Science,* December, 1905.

L'Analyse des Sphymogrammes. *Journal de Phisiologie et de Pathologie Generale,* May, 1906.

The Expression of Feelings. Harvard Psychological Studies, 1906.

Time-Estimation in its Relation to Sex, Age, and Physiological Rhythms. Harvard Psychological Studies, 1906.

On Systematic Errors in Time-Estimation. *American Journal of Psychology,* May, 1907.

On the Method of Just Perceptible Differences. *Psychological Review,* July, 1907.

WALTER KURT VAN HAAGEN

B.S. (Pennsylvania, 1905): Chemistry. Scholar, 1905-1906; University Scholar, 1906-1908. Assistant in Chemistry, University of Pennsylvania, 1907 to date.

Member of Sigma Xi, 1905.

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CLAUDE HALSTEAD VAN TYNE

A.B. (Michigan, 1896): American History. Fellow, 1898-1900; Ph.D. (Pennsylvania, 1900); Senior Fellow, 1900 to January 23, 1903. February to June, 1903, under commission to examine sources for the study of American History, existing in the archives of the government, for the Carnegie Institution. Assistant Professor of American History, 1903-1906; Professor, University of Michigan, 1906 to date.

Thesis: Elimination of the Loyalists by Legal Enactments.

Member of the American Historical Association, 1900.

Address: Ann Arbor, Michigan.

PUBLICATIONS:

Letters of Daniel Webster [eight hundred letters, before unknown, discovered and edited]. New York: McClure, Phillips and Company, 1902. Pp. 750.

History of the Loyalists in the American Revolution. New York: The Macmillan Company, 1902. Pp. 360.

Guide to the Archives of the Government of the United States at Washington [in collaboration with W. G. Leland]. Washington: Carnegie Institution, 1904. Pp. 215.

History of the American Revolution. New York: Harper Brothers, 1905. Pp. 369.

Sovereignty in the American Revolution. *American Historical Review,* April, 1907.

Contributed articles on George Washington to the "Encyclopædia Americana." New York: The American Company. 1903. Also articles on the American Revolution to "Nelson's Encyclopædia." New York: Nelson and Company, 1907.

NICHOLAS PANAGIS VLACHOS

Graduate (Gymnasium of Haarlem, Holland, 1895): Classical Languages. Student, University of Amsterdam, 1897-1898; of Pennsylvania, 1898-1899. Fellow, 1899-1901; Ph.D. (Pennsylvania, 1901); Senior Fellow, 1901 to February 1, 1903. Professor of Latin and Greek, Temple College, Philadelphia, February 1, 1903, to date.

Member of the American Philological Association, 1903; Classical Association of the Middle States and Maryland, 1907.

Address: Laurel Springs, New Jersey.

PUBLICATIONS:

Note on Juvenal, 102 ff. *Classical Review,* May, 1900.

The Subject of Sophocles' Antigone [Thesis]. Privately printed, 1901. Pp. 52.

Religious Prophetism Among the Greeks. *Reformed Church Review,* October, 1904; January, October, 1905.

Demosthenes and Dio Cassius (D. C. 38, 36-46). *Classical Review,* March, 1905.

Some Aspects of the Religion of Sophocles. Philadelphia, Publications of The Temple College, 1906. Pp. 21. Reprinted from *Reformed Church Review,* April, 1906.

FRANK JULIAN WARNE

Certificate in Finance and Economy (Pennsylvania, 1896): Economics. A.M., Ph.D. (Pennsylvania, 1899, 1902); Senior Fellow, 1902-1903; University Fellow for Research, 1903-1906. Secretary to the National Civic Federation, Immigration Department, New York City, 1906 to date.

Member of the American Academy of Political and Social Science, 1898.

Address: 720 Market Street, Parkersburg, West Virginia.

PUBLICATIONS:

The Anthracite Coal Strike. *Annals of the American Academy of Political and Social Science,* January, 1901.

Organized Labor in the Anthracite Coal Fields. *The Outlook,* May, 1902.

The Real Cause of the Miners' Strike. *Ibid.,* August, 1902.

John Mitchell: The Labor Leader and the Man. *Review of Reviews,* November, 1902.

The Effect of Unionism Upon the Mine Worker. *Annals of the American Academy of Political and Social Science,* January, 1903.

Slav Invasion of the Anthracite Region. Series of eleven letters in the Philadelphia *Public Ledger,* September-October, 1903.

The Joint Conference of Coal Operators and Mine Workers. *Railway World,* January, 1904.

Capital and Labor in the Soft Coal Fields. *Ibid.,* January, 1904.

The Union Movement Among Coal Mine Workers. Bulletin of the Bureau of Labor, Department of Commerce and Labor, No. 51, March, 1904. Pp. 34.

The Slav Invasion and the Mine Workers: A Study in Immigration [Thesis]. Philadelphia: J. B. Lippincott Company, 1904. Pp. 211.

Some Industrial Effects of Slav Immigration. *Charities,* December, 1904.

Railway Distribution of Immigration. *Railway World,* December, 1904.

Immigration and the Southern States. A Symposium (as editor and contributor). Articles published in, and reprinted from, the *Railway World.* Philadelphia: Railway World Publishing Company, 1904. Pp. 43.

The Miner's Union: Its Business Management. *Annals of the American Academy of Political and Social Science,* January, 1905.

The Coal Mine Workers: A Study in Labor Organization. New York: Longman's, Green and Company, 1905. Pp. 252.

The Labor Situation in the Anthracite Coal Industry. *The Outlook,* December, 1905.

Two Chapters in Common's "Trade Unionism and Labor Problems." Boston: Ginn and Company, 1905.

Birthplace of the American Railroad. *Railway World,* January, 1906.

Early Railway Competition With the Canals. *Ibid.,* January, 1906.

The Impending Crisis in the Coal Situation. *Philadelphia Public Ledger,* February, 1906.

The Reading System: Its Organization and Its Control. *Ibid.,* March, 1906.

Mine Labor Conditions in West Virginia. *The Outlook,* March, 1906.

Miner and Operator: A Study of Labor Conditions in the Anthracite Coal Fields. *Ibid.,* April, 1906.

The Suspension of Coal Mining. *Philadelphia Public Ledger,* April, 1906.

The Anthracite Coal Strike of 1902. *Railroad Gazette,* April, 1906.

A Ton of Anthracite. *The Outlook,* April, 1906.

Railway Control of Coal Mining. *Ibid.,* May, 1906.

The Trade Agreement in Five Great Industries. *The National Civic Federation Review,* July, 1906.

Facts on Immigration. (Editor and Contributor.) *The National Civic Federation Review,* 1907. Pp. ix, 151.

Miscellaneous editorials and book reviews contributed to *The*

Outlook, Philadelphia Public Ledger, Railway World, National Civic Federation Review, and *The Annals of the American Academy of Political and Social Science.*

Editor of the *Railway World,* 1903-1906; Associate Editor of *The National Civic Federation Review,* 1906 to date.

JOSEPH PARKER WARREN

A.B., A.M. (Harvard, 1896, 1897): American History. Fellow, 1897-1898. Ph.D. (Harvard, 1902). Assistant in History and Government, Harvard University, 1896-1897, 1899-1900, 1901-1902. Instructor in Government, Harvard Summer School, 1900, 1901, 1903. Instructor in History, Leland Stanford, Jr., University, 1901. Instructor in History, University of Chicago, 1902 to date.

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HERBERT SEISER WEBER

A.B. (Pennsylvania, 1902): English. Scholar, 1902-1903; resigned. Journalist.

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SAMUEL EDWIN WEBER

Ph.B. (Lafayette, 1901): Pedagogy. Fellow, 1903-1905; Ph.D. (Pennsylvania, 1905). Professor of Education and Psychology, Cortland State Normal School, Cortland, New York, 1905 to date. Lecturer on Educational Psychology and Methods of Teaching, Summer School, Wittenberg College, 1907.

Member of Cortland Science Club, 1905; New York State Teachers' Association, 1905.

Address: Cortland, New York.

PUBLICATIONS:

The Charity School Movement in Colonial Pennsylvania [Thesis]. Privately printed, Philadelphia, 1905. Pp. 74.

ELLWOOD AUSTIN WELDEN

B.S. (Pennsylvania, 1903): Indo-European Philology. Scholar, 1903-1904; Fellow, 1904-1905; absent on leave in Germany during second half year; reappointed, 1905-1906; Ph.D. (Pennsylvania, 1906). Shattuck Scholar in Indic Philology, Harvard University, 1906-1907.

Thesis: The Samkhya-Karikas: Text and Translation.

Foreign Member of Asiatic Society of Japan, 1900; Phi Beta Kappa, 1903; American Oriental Society, 1907.

Address: 4011 Spring Garden Street, Philadelphia.

PUBLICATIONS:

Note to Rig-Veda. VIII, 137.7. Publications of the American Oriental Society, 1907.

WALTER EDWARD WEYL

Ph.B. (Pennsylvania, 1892): Economics. Fellow, 1896-1897; Ph.D. (Pennsylvania, 1897); Senior Fellow, 1897-1899. In charge of Division of Internal Commerce of the Bureau of Statistics, Treasury Department, Washington, D. C., 1899-1900. Resident of the University Settlement, New York, 1904 to date.

Member of the American Academy of Political and Social Science, 1896; American Economic Association, 1897; Washington Economic Association, 1899.

Address: 3 Fifth Avenue, New York City.

PUBLICATIONS:

Conditions of Railway Labor in Europe. *Bulletin* of the United States Department of Labor, January, 1899.

Labor Conditions in Mexico. *Ibid.*, January, 1902.

Passenger Traffic of Railways [Thesis]. Publications of the University of Pennsylvania; Series in Political Economy and Public Law, 1901. Pp. 249.

Street Railway Employment in the United States. *Bulletin* of the United States Department of Labor, March, 1905.

Labor Conditions in Porto Rico. *Ibid.,* November, 1905.
Benefit Features of British Trade Unions. *Ibid.,* May, 1906.
Conditions of Entrance to the Principal Trades (in collaboration with Dr. A. M. Sakolski). *Ibid.,* November, 1906.
Assisted and collaborated with John Mitchell in "Organized Labor." Philadelphia: American Book and Bible House, 1903. Pp. xii, 436.
Also miscellaneous articles contributed to various magazines.

GEORGE RAY WICKER

A.B., A.M. (Cornell, 1890, 1898): Economics. Fellow, 1898-1899. Honorary Fellow in Municipal Science, 1899-1900; Ph.D. (Wisconsin, 1900). Instructor in Economics, 1900-1903; Assistant Professor, Dartmouth College, 1903 to date.

Thesis: The Financial History of the Dutch Colony of New Amsterdam.

Member of the American Economic Association, 1900-1903; American Academy of Political and Social Science, 1900-1904.

Address: Hanover, New Hampshire.

PUBLICATIONS:

Elementary Principles of Economics (in collaboration with Professor Richard T. Ely, Ph.D., LL.D.). New York: The Macmillan Company, 1904. Pp. 380.

JOSEF WIEHR

Ph.B. (Iowa State, 1904): Germanics. Assistant in German, Iowa State University, 1903-1904. Fellow in German, 1904-1905; A.M. (Pennsylvania, 1905); Fellow, 1905-1906; Ph.D. (Pennsylvania, 1907). Assistant in German, 1906-1907; Instructor, University of Illinois, 1907 to date.

Thesis: Hebbel und Ibsen: A Comparison of their Views of the World and of Life.

Member of Phi Beta Kappa, 1907; Modern Language Association, 1907.

Address: Urbana, Illinois.

PUBLICATIONS:

The Naturalistic Plays of Gerhart Hauptmann. *Journal of English and Germanic Philology,* October, 1906; April, 1907.

JAMES FIELD WILLARD

B.S. (Pennsylvania, 1898): European History. Scholar in History and Philosophy, 1898-1899; Fellow in European History, 1901-1902; Ph.D. (Pennsylvania, 1902). Scholar in European History, University of Wisconsin, 1899-1900. Fellow, 1900-1901. Instructor in History, Northwestern University, 1902-1904. Fellow for Research, 1904-1906. Professor of History, University of Colorado, 1906 to date.

Member of the American Historical Society, 1899.

Address: Boulder, Colorado.

PUBLICATIONS:

The Royal Authority and the Early English Universities [Thesis]. Privately printed, 1902. Pp. 89.

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